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# NASA Technical Memorandum 74071

SUBSONIC LONGITUDINAL AND LATERAL-DIRECTIONAL STATIC  
AERODYNAMIC CHARACTERISTICS OF A GENERAL RESEARCH FIGHTER  
MODEL EMPLOYING A STRAKE-WING CONCEPT

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(NASA-TM-74071) SUBSONIC LONGITUDINAL AND  
LATERAL-DIRECTIONAL STATIC AERODYNAMIC  
CHARACTERISTICS OF A GENERAL RESEARCH  
FIGHTER MODEL EMPLOYING A STRAKE-WING  
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Langley Research Center  
Hampton, Virginia 23665





# ABSTRACT

A general research fighter model was tested in the Langley 7- by 10-foot high speed tunnel at a Mach number of 0.3. Strakes with exposed semi-spans of 10%, 20%, and 30% of the wing reference semi-span were tested in combination with wings having leading edge sweep angles of  $30^\circ$ ,  $44^\circ$ , and  $60^\circ$ . The angle of attack range was from  $-4^\circ$  to approximately  $48^\circ$  at sideslip angles of  $0^\circ$ ,  $-5^\circ$ , and  $5^\circ$ . The data are presented without analysis in order to expedite publication.

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## INTRODUCTION

A current trend in aircraft design is toward configurations which employ strakes to generate vortex lift in order to enhance the aerodynamic characteristics of the configuration. However, very little data is available to assist the designer in choosing an appropriate strake-wing configuration. (See reference 1.) A subsonic experimental study of a parametric series of strake-wing configurations has therefore been undertaken to build a data base for the designer (see reference 2.) The present study investigated primarily the lateral-directional aerodynamic characteristics of a series of strake-wing configurations. The configurations chosen for the present study consist of strakes with exposed semi-spans of 10%, 20%, and 30% of the wing reference semi-span in combination with wings having nominal leading-edge sweep angles of  $30^\circ$ ,  $44^\circ$ , and  $60^\circ$ . The test was conducted in the Langley 7- by 10-foot high speed tunnel at a Mach number of 0.3. The angle of attack range was from  $-4^\circ$  to approximately  $48^\circ$  at sideslip angles of  $0^\circ$ ,  $-5^\circ$ , and  $5^\circ$ . For completeness, the longitudinal data for the configurations chosen for the present study, which are presented in reference 2, have been included in this report. The data are presented without analysis in order to expedite publication.

## SYMBOLS

The International System of Units, with the U.S. Customary Units presented in parenthesis, is used for the physical quantities in this report (see reference 3). The measurements and calculations were made in the U.S. Customary Units. The data presented in this report are referred to the stability axis system. The reference center for moments is shown in Figure 1(a). The symbols in parenthesis are used in Table II.

- b            wing reference span, .508 m (20.000 in.)
- $\bar{c}$            wing reference chord, .233 m (9.185 in.)
- (CA)        total axial force coefficient,  $\frac{\text{Axial Force}}{qS}$
- (CA2)       nose axial force coefficient
- $C_D$ (CD)    total drag coefficient,  $\frac{\text{Drag}}{qS}$
- $C_{D_2}$ (CD2)   nose drag coefficient
- (CDB2)      nose drag coefficient correction for nose balance base pressure
- (CDC)       total drag coefficient correction for main balance chamber pressure
- (CDC2)      nose drag coefficient correction for nose balance chamber pressure

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$C_L$  (CL) total lift coefficient,  $\frac{\text{Lift}}{qS}$

$C_{L_2}$  (CL2) nose lift coefficient

$C_{\ell}$  (CRMS) total stability axis rolling moment coefficient,  $\frac{\text{Rolling moment}}{qSb}$

$C_{\ell_2}$  (CRMS2) nose stability axis rolling moment coefficient

$C_{\ell\beta}$  beta derivative of total stability axis rolling moment coefficient  
computed between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

$C_{\ell\beta_2}$  beta derivative of nose stability axis rolling moment coefficient  
computed between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

(CM) total body axis pitching moment coefficient,  $\frac{\text{Pitching moment}}{qSc}$

(CM2) nose body axis pitching moment coefficient

$C_m$  (CMS) total stability axis pitching moment coefficient,  $\frac{\text{Pitching moment}}{qSc}$

$C_{m_2}$  (CMS2) nose stability axis pitching moment coefficient

(CN) total normal force coefficient,  $\frac{\text{Normal force}}{qS}$

(CN2) nose normal force coefficient



$C_n$ (CYMS) total stability axis yawing moment coefficient,  $\frac{\text{Yawing moment}}{qSb}$

$C_{n_2}$ (CYMS2) nose stability axis yawing moment coefficient

$C_{n_\beta}$  beta derivative of total yawing moment coefficient computed  
between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

$C_{n_{\beta_2}}$  beta derivative of nose yawing moment coefficient computed  
between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

(CRM) total body axis rolling moment coefficient,  $\frac{\text{Rolling moment}}{qSb}$

(CRM2) nose body axis rolling moment coefficient

(CY) total body axis side force coefficient,  $\frac{\text{Side force}}{qS}$

(CY2) nose body axis side force coefficient

(CYM) total body axis yawing moment coefficient,  $\frac{\text{Yawing moment}}{qSb}$

(CYM2) nose body axis yawing moment coefficient

$C_y$ (CYS) total stability axis side force coefficient,  $\frac{\text{Side force}}{qS}$

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$C_{Y_2}$  (CYS2) nose stability axis side force coefficient

$C_{Y_\beta}$  beta derivative of total side force coefficient computed  
between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

$C_{Y_{\beta_2}}$  beta derivative of nose side force coefficient computed  
between  $\beta = 5^\circ$  and  $\beta = -5^\circ$

$M(\text{MACH})$  free stream Mach number

$q(Q)$  free stream dynamic pressure, Pa (lb/ft<sup>2</sup>)

$S$  wing reference area, .1032 m<sup>2</sup> (1.11109 ft<sup>2</sup>)

$X$  axial distance from exposed strake theoretical apex  
(see Figure 1(c))

$Y$  Local exposed semi-span of strake (see Figure 1(c))

$Y_{\text{max}}$  maximum exposed semi-span of strake; .0254 m (1.0 in.),  
.0508 m (2.0 in.), and .0762 m (3.0 in.) for the three strakes  
tested (see Figure 1(c))

$\alpha(\text{ALPHA})$  angle of attack of the model, degrees

$\alpha_2$ (ALPHA2) angle of attack of the fuselage nose, degrees

$\beta$ (BETA) angle of sideslip of the model, degrees

$\beta_2$ (BETA2) angle of sideslip of the fuselage nose, degrees

$\Lambda_w$  leading edge sweep angle of the wing, degrees

#### MODEL

B body

S strake

V vertical tail

W wing

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## DESCRIPTION OF THE MODEL

Drawings of the model tested are presented in Figure 1. Photographs of the model installed in the 7- by 10-foot high speed tunnel are presented in Figure 2. The basic model consisted of a main fuselage with a vertical tail and a wing and a fuselage nose with a strake. The main fuselage was sting mounted on a six-component strain gage main balance which measured the total forces and moments on the configuration. The fuselage nose was mounted on a six-component strain gage nose balance which measured only the forces and moments on the nose and strake. The metric break in the model is shown in Figure 1 and clearly visible in Figure 2.

The uncambered, untwisted wings tested, which are shown in Figure 1(b), had nominal leading edge sweep angles of  $30^\circ$ ,  $44^\circ$ , and  $60^\circ$ . These wings employed a circular arc airfoil section with a thickness ratio of 6% at the fuselage juncture and 4% at the tip. The strakes tested, which are shown in Figure 1(c), consisted of sharp-edged flat plates.

The centerline mounted vertical tail, which is shown in Figure 1(d), employed a circular arc airfoil section with a thickness ratio of 6% at the fuselage juncture and 4% at the tip.



## APPARATUS, TESTS, AND CORRECTIONS

The investigation was conducted in the Langley 7- by 10-foot high speed tunnel (see reference 4). Forces and moments were measured on six component strain gage balances mounted internally in the model. The test was run at a Mach number of 0.30 corresponding to a Reynolds number of  $1.4 \times 10^6$  based on the wing reference chord. The model was tested over an angle of attack range from  $-4^\circ$  to approximately  $48^\circ$  at sideslip angles of  $0^\circ$ ,  $-5^\circ$ , and  $5^\circ$ . The angles of attack and sideslip have been corrected for the effects of sting and balance bending under load. It should be noted that the sting support system which permits testing over this large angle range is designed specifically for stability testing. Therefore the level of the drag data are questionable for use in performance analysis.

Jet boundary and blockage corrections have been applied to the data based on references 5 and 6, respectively. The main balance chamber pressure was measured and the total drag measurements were adjusted to a condition of free stream static pressure acting over the base of the model. The nose balance base and chamber pressure were also measured and the nose drag measurements were adjusted to a condition of free stream static pressure acting at the base of the nose. Transition strips 0.16 cm (0.0625 in.) in width of No. 120 Carborundum grains were placed 2.54 cm (1.0 in.) aft of the leading edge of the wings, strakes, and vertical tail as well as 3.05 cm (1.2 in.) aft of the nose of the fuselage. (See reference 7).

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## PRESENTATION OF RESULTS

The results are presented without analysis in order to expedite publication.

The data are presented in the following figures:

	<u>Figure</u>
Longitudinal and lateral-directional data	
$\Lambda_w = 30^\circ$	3
$\Lambda_w = 44^\circ$	4
$\Lambda_w = 60^\circ$	5
Lateral-directional derivative data:	
$\Lambda_w = 30^\circ$	6
$\Lambda_w = 44^\circ$	7
$\Lambda_w = 60^\circ$	8

It should be noted that the metric break in the strake-wing permits flow to bleed through the lifting surface. This bleed flow is significant in that it can reduce the angle of attack for vortex breakdown by several degrees in comparison with the corresponding configuration with the metric break sealed. (See reference 2.)

The run schedule is presented in Table I. A tabulation of the aerodynamic coefficients is presented in Table II.

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TABLE I.- RUN SCHEDULE.

RUN	$\beta$ Nominal	$\Lambda_w$	Strake	Vertical Tail					
6	0	$60^\circ$	Large	On					
7	5			On					
8	-5			On					
9	5			Off					
10	-5			Off					
21	0		Off	On					
26	0		Medium	On					
27	5			On					
28	-5			On					
30	5			Off					
31	-5			Off					
40	0		Small	On					
41	5			On					
42	-5			On					
44	5			Off					
45	-5			Off					
88	0	$44^\circ$	Off	On					
89	5			On					
90	-5			On					
91	5			Off					
92	-5			Off					
93	5		Large	Off					
94	-5			Off					
95	5			On					
96	-5			On					

NASA-Langley Form 10 (AUG 1969)



TABLE I.- Continued.

RUN	$\beta$ Nominal	$A_w$	Strake	Vertical Tail					
97	0	44°	Large	On					
101	0		Medium	On					
103	5			On					
104	-5			On					
105	5			Off					
106	-5			Off					
108	0		Small	On					
110	5			On					
111	-5			On					
112	5			Off					
113	-5			Off					
124	5	30	Medium	On					
125	-5			On					
126	5			Off					
127	-5			Off					
129	0			On					
132	5		Small	On					
133	-5			On					
134	5			Off					
135	-5			Off					
136	0			On					
139	5		Large	On					
140	-5			On					
141	5			Off					
142	-5			Off					

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TABLE I.- Concluded.

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TABLE II. TABULATION OF THE AERODYNAMIC COEFFICIENTS.

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7 X 10 HIGH SPEED TUNNEL											
TEST TP	24 MACH	0	RUN ALPHA	6 BETA	CL	CO	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMB	PA	DEG	DEG							
10655	.301	6059.2	-3.50	-.01	-.0406	.0170	.0070	-.0007	-.0014	-.0072	.0057
10656	.301	6041.7	-3.92	-.09	-.2112	.0298	.0408	-.0009	-.0013	-.0111	.0057
10657	.301	6061.1	-1.86	-.04	-.1044	.0198	.0197	-.0007	-.0014	-.0106	.0056
10658	.301	6060.4	-.65	-.01	-.0336	.0185	.0046	-.0003	-.0012	-.0122	.0057
10659	.300	6038.5	1.96	.03	.0894	.0194	-.0226	-.0009	-.0006	-.0099	.0056
10660	.301	6049.8	3.88	.10	.1934	.0282	-.0428	-.0005	-.0006	-.0146	.0059
10661	.301	6047.5	6.13	.14	.3197	.0472	-.0679	-.0003	-.0003	-.0157	.0061
10662	.300	6033.9	7.90	.22	.4410	.0740	-.0754	-.0005	-.0001	-.0188	.0063
10663	.300	6028.5	9.87	.26	.5347	.1047	-.0720	-.0001	-.0000	-.0197	.0063
10664	.299	5999.2	11.90	.30	.6623	.1521	-.0606	-.0001	.0003	-.0213	.0060
10665	.300	6013.0	13.95	.40	.7866	.2078	-.0551	.0000	.0003	-.0232	.0057
10666	.300	6021.6	15.86	.42	.9302	.2758	-.0638	-.0005	.0005	-.0236	.0062
10667	.300	6006.5	17.77	.43	1.0643	.3506	-.0725	-.0004	.0011	-.0256	.0065
10668	.300	6020.6	19.80	.41	1.1799	.4311	-.0738	-.0004	.0018	-.0265	.0064
10669	.300	6006.0	21.76	.38	1.3306	.5258	-.0697	.0005	.0024	-.0271	.0060
10670	.300	6029.7	23.69	.30	1.4515	.6389	-.0631	.0010	.0030	-.0289	.0058
10671	.300	6036.7	25.61	.37	1.5454	.7383	-.0561	.0010	.0035	-.0305	.0055
10672	.300	6037.4	27.72	.49	1.6784	.8749	-.0358	.0008	.0045	-.0345	.0050
10673	.301	6052.9	29.86	.49	1.7666	1.0034	-.0123	.0018	.0052	-.0356	.0044
10674	.300	6035.4	31.84	.49	1.8005	1.1037	.0516	.0021	.0026	-.0344	.0050
10675	.301	6052.2	33.74	.64	1.7144	1.1275	.1236	.0024	.0053	-.0364	.0075
10676	.301	6062.9	35.70	.71	1.7494	1.2327	.1300	.0025	.0057	-.0368	.0077
10677	.299	5983.2	37.87	.67	1.7789	1.3574	.1361	.0027	.0067	-.0355	.0078
10678	.301	6054.2	39.50	.76	1.7737	1.4324	.1409	.0038	.0061	-.0387	.0083
10679	.300	6003.3	41.62	.85	1.7568	1.5267	.1639	.0026	.0056	-.0346	.0107
10680	.300	6035.9	-.49	.00	-.0472	.0174	.0076	-.0005	-.0012	-.0185	.0056
TEST TP	24 MACH	0	RUN ALPHA	6 BETA	CN	CA	CM	CRM	CYM	CY	
NUM	NUMB	PA	DEG	DEG							
10655	.301	6059.2	-3.50	-.01	-.0407	.0167	.0070	-.0007	-.0014	-.0072	
10656	.301	6041.7	-3.92	-.09	-.2127	.0153	.0408	-.0010	-.0012	-.0111	
10657	.301	6061.1	-1.86	-.04	-.1049	.0164	.0197	-.0008	-.0014	-.0106	
10658	.301	6060.4	-.65	-.01	-.0338	.0181	.0046	-.0004	-.0012	-.0122	
10659	.300	6038.5	1.96	.03	.0900	.0165	-.0226	-.0009	-.0006	-.0099	
10660	.301	6049.8	3.88	.10	.1948	.0150	-.0428	-.0005	-.0007	-.0146	
10661	.301	6047.5	6.13	.14	.3229	.0128	-.0679	-.0002	-.0004	-.0157	
10662	.300	6033.9	7.90	.22	.4470	.0127	-.0754	-.0005	-.0002	-.0188	
10663	.300	6028.5	9.87	.26	.5447	.0114	-.0720	-.0001	-.0000	-.0197	
10664	.299	5999.2	11.90	.30	.6796	.0122	-.0606	-.0001	.0002	-.0213	
10665	.300	6013.0	13.95	.40	.8134	.0120	-.0551	-.0001	.0003	-.0232	
10666	.300	6021.6	15.86	.42	.9702	.0111	-.0638	-.0006	.0003	-.0236	
10667	.300	6006.5	17.77	.43	1.1206	.0089	-.0725	-.0008	.0002	-.0256	
10668	.300	6020.6	19.80	.41	1.2561	.0059	-.0738	-.0010	.0015	-.0265	
10669	.300	6006.0	21.76	.38	1.4344	.0042	-.0697	-.0004	.0024	-.0271	
10670	.300	6029.7	23.69	.30	1.5859	.0018	-.0631	-.0003	.0031	-.0289	
10671	.300	6036.7	25.61	.37	1.7127	-.0022	-.0561	-.0006	.0036	-.0305	
10672	.300	6037.4	27.72	.49	1.8910	-.0053	-.0358	-.0014	.0044	-.0345	
10673	.301	6052.9	29.86	.49	2.0317	-.0094	-.0123	-.0010	.0054	-.0356	
10674	.300	6035.4	31.84	.49	2.1118	-.0122	.0516	.0004	.0053	-.0344	
10675	.301	6052.2	33.74	.64	2.0519	-.0148	.1236	-.0010	.0057	-.0364	
10676	.301	6062.9	35.70	.71	2.1368	-.0176	.1300	-.0013	.0061	-.0368	
10677	.299	5983.2	37.87	.67	2.2376	-.0204	.1361	-.0020	.0069	-.0355	
10678	.301	6054.2	39.50	.76	2.2798	-.0231	.1409	-.0010	.0071	-.0387	
10679	.300	6003.3	41.62	.85	2.3274	-.0253	.1639	-.0018	.0059	-.0346	
10680	.300	6035.9	-.49	.00	-.0474	.0170	.0076	-.0005	-.0012	-.0185	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN	6							
TP		NACH	Q	ALPHA2	BETA2	CL2	CD2	CNS2	CRMS2	CYMS2	CYS2	CD82
NUM		NUMB	PA	DEG	DEG							
10655	.301	6059.2	-3.50	-0.01	-0.0069	.0067	-.0083	.0002	-.0008	-.0014	-.0001	
10656	.301	6041.7	-3.91	-0.14	-.0598	.0100	-.0532	.0003	-.0010	-.0022	-.0007	
10657	.301	6061.1	-1.86	-0.06	-.0252	.0070	-.0247	.0003	-.0010	-.0021	-.0004	
10658	.301	6060.4	-.65	-0.02	-.0052	.0069	-.0067	.0002	-.0011	-.0021	-.0001	
10659	.300	6038.5	1.95	.06	.0310	.0077	.0261	.0003	-.0005	-.0007	.0001	
10660	.301	6049.8	3.88	.15	.0633	.0104	.0518	.0003	-.0013	-.0019	.0004	
10661	.301	6047.5	6.13	.22	.1050	.0166	.0860	.0003	-.0011	-.0015	.0006	
10662	.300	6033.9	7.90	.32	.1530	.0262	.1243	.0002	-.0015	-.0022	.0008	
10663	.300	6028.5	9.87	.39	.1934	.0376	.1577	.0002	-.0016	-.0024	.0009	
10664	.299	5999.2	11.90	.45	.2501	.0562	.2050	.0002	-.0017	-.0022	.0012	
10665	.300	6013.0	13.95	.58	.3029	.0776	.2497	.0001	-.0020	-.0027	.0015	
10666	.300	6021.6	15.85	.62	.3584	.1031	.2972	.0001	-.0018	-.0024	.0019	
10667	.300	6006.5	17.77	.65	.4104	.1313	.3421	-.0001	-.0019	-.0027	.0028	
10668	.300	6020.6	19.80	.66	.4580	.1625	.3849	-.0003	-.0017	-.0026	.0038	
10669	.300	6006.0	21.76	.65	.5216	.2045	.4433	-.0003	-.0017	-.0022	.0053	
10670	.300	6029.7	23.69	.60	.5743	.2463	.4940	-.0003	-.0015	-.0020	.0068	
10671	.300	6036.7	25.60	.69	.6165	.2870	.5371	-.0006	-.0019	-.0029	.0082	
10672	.300	6037.4	27.71	.83	.6813	.3468	.6020	-.0009	-.0018	-.0031	.0104	
10673	.301	6052.9	29.85	.86	.7289	.4040	.6554	-.0011	-.0018	-.0031	.0121	
10674	.300	6035.4	31.83	.89	.7699	.4605	.7070	-.0014	-.0021	-.0035	.0135	
10675	.301	6052.2	33.74	1.05	.7948	.4840	.7329	-.0016	-.0020	-.0036	.0110	
10676	.301	6062.9	35.69	1.14	.7632	.5254	.7656	-.0016	-.0017	-.0033	.0124	
10677	.299	5983.2	37.86	1.13	.7727	.5740	.8036	-.0015	-.0014	-.0027	.0135	
10678	.301	6054.2	39.49	1.23	.7685	.6033	.8221	-.0014	-.0017	-.0032	.0137	
10679	.300	6003.3	41.60	1.35	.7639	.6445	.8531	-.0018	-.0018	-.0035	.0134	
10680	.300	6035.9	-.49	-.01	-.0079	.0062	-.0090	.0002	-.0013	-.0023	.0000	

TEST	24			RUN	6							
TP		NACH	Q	ALPHA2	BETA2	CN2	CA2	CR2	CRM2	CYM2	CY2	CO22
NUM		NUMB	PA	DEG	DEG							
10655	.301	6059.2	-3.50	-0.01	-0.0070	.0066	-.0085	.0002	-.0008	-.0014	-.0001	
10656	.301	6041.7	-3.91	-0.14	-.0601	.0059	-.0532	.0003	-.0010	-.0022	-.0002	
10657	.301	6061.1	-1.86	-0.06	-.0254	.0062	-.0247	.0002	-.0010	-.0021	-.0002	
10658	.301	6060.4	-.65	-0.02	-.0053	.0069	-.0067	.0002	-.0011	-.0021	-.0001	
10659	.300	6038.5	1.95	.06	.0312	.0067	.0261	.0003	-.0005	-.0007	.0001	
10660	.301	6049.8	3.88	.15	.0639	.0061	.0518	.0004	-.0012	-.0019	.0002	
10661	.301	6047.5	6.13	.22	.1070	.0052	.0860	.0004	-.0010	-.0015	.0002	
10662	.300	6033.9	7.90	.32	.1552	.0050	.1243	.0004	-.0015	-.0022	.0002	
10663	.300	6028.5	9.87	.39	.1970	.0039	.1577	.0005	-.0016	-.0024	.0002	
10664	.299	5999.2	11.90	.45	.2563	.0034	.2050	.0005	-.0016	-.0022	.0003	
10665	.300	6013.0	13.95	.58	.3127	.0023	.2497	.0006	-.0019	-.0027	.0004	
10666	.300	6021.6	15.85	.62	.3729	.0013	.2972	.0006	-.0018	-.0024	.0005	
10667	.300	6006.5	17.77	.65	.4309	-.0002	.3421	.0005	-.0019	-.0027	.0007	
10668	.300	6020.6	19.80	.66	.4859	-.0022	.3849	.0004	-.0019	-.0026	.0010	
10669	.300	6006.0	21.76	.65	.5602	-.0035	.4433	.0003	-.0017	-.0022	.0014	
10670	.300	6029.7	23.69	.60	.6248	-.0051	.4940	.0003	-.0015	-.0020	.0017	
10671	.300	6036.7	25.60	.69	.6800	-.0076	.5371	.0002	-.0019	-.0029	.0021	
10672	.300	6037.4	27.71	.83	.7644	-.0098	.6020	.0000	-.0020	-.0031	.0027	
10673	.301	6052.9	29.85	.86	.8333	-.0124	.6554	-.0001	-.0021	-.0031	.0031	
10674	.300	6035.4	31.83	.89	.8970	-.0148	.7070	-.0001	-.0025	-.0035	.0035	
10675	.301	6052.2	33.74	1.05	.8965	-.0167	.7329	-.0002	-.0025	-.0036	.0028	
10676	.301	6062.9	35.69	1.14	.9264	-.0186	.7656	-.0003	-.0023	-.0033	.0031	
10677	.299	5983.2	37.86	1.13	.9624	-.0210	.8036	-.0003	-.0020	-.0027	.0033	
10678	.301	6054.2	39.49	1.23	.9768	-.0232	.8221	.0000	-.0022	-.0032	.0034	
10679	.300	6003.3	41.60	1.35	.9992	-.0253	.8551	-.0002	-.0025	-.0035	.0032	
10680	.300	6035.9	-.49	-.01	-.0080	.0062	-.0090	.0002	-.0013	-.0023	.0001	



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	0 PA	RUN ALPHA DEG	7 BETA DEG	CL	CD	CMX	CRMS	CYMS	CYS	CDC
10681	.301	6037.7	.39	4.87	-.0010	.0136	-.0057	-.0101	.0239	-.0861	.0071
10682	.300	6037.5	-3.72	4.40	-.1997	.0277	.0370	-.0043	.0178	-.0738	.0064
10683	.301	6049.1	-1.98	4.97	-.1142	.0202	.0207	-.0055	.0194	-.0743	.0066
10685	.301	6057.6	.67	4.99	-.0002	.0152	-.0057	-.0105	.0246	-.0873	.0072
10686	.301	6048.8	2.00	4.87	.0740	.0186	-.0220	-.0124	.0291	-.0882	.0073
10687	.300	6037.0	4.16	4.88	.1986	.0280	-.0450	-.0135	.0246	-.0875	.0074
10688	.300	6008.9	6.04	5.01	.3150	.0446	-.0658	-.0149	.0228	-.0904	.0072
10689	.300	6015.9	7.83	5.11	.4322	.0710	-.0761	-.0193	.0257	-.0921	.0075
10690	.300	6025.1	9.86	5.17	.5397	.1040	-.0742	-.0209	.0258	-.0897	.0074
10691	.299	5987.7	11.97	5.05	.6770	.1543	-.0649	-.0211	.0261	-.0905	.0071
10692	.300	6038.9	13.71	5.09	.7636	.1956	-.0590	-.0200	.0302	-.0902	.0070
10693	.300	6021.7	15.68	4.99	.9187	.2671	-.0602	-.0213	.0324	-.0928	.0073
10695	.300	6023.6	17.75	5.14	1.0672	.3497	-.0690	-.0252	.0312	-.0870	.0071
10696	.300	6009.1	19.84	4.96	1.2061	.4412	-.0676	-.0256	.0277	-.0778	.0068
10697	.300	6013.3	21.76	5.01	1.3319	.5355	-.0686	-.0308	.0294	-.0702	.0066
10698	.301	6053.7	23.69	4.71	1.4428	.6334	-.0690	-.0283	.0256	-.0629	.0061
10699	.301	6067.5	25.90	4.93	1.5596	.7329	-.0372	-.0259	.0305	-.0674	.0063
10700	.301	6087.7	27.90	5.06	1.5849	.8315	.0372	-.0183	.0111	-.0487	.0075
10701	.301	6048.9	29.81	5.05	1.6523	.9358	.0564	-.0225	-.0052	-.0229	.0077
10702	.299	5994.9	31.83	5.02	1.6981	1.0390	.0678	-.0240	-.0164	-.0094	.0075
10703	.301	6067.5	33.58	4.90	1.7575	1.1490	.0817	-.0234	-.0282	-.0016	.0069
10704	.300	6038.8	35.84	4.89	1.7520	1.2442	.1256	-.0314	-.0205	.0097	.0080
10705	.300	6001.7	37.73	5.19	1.7339	1.3155	.1400	-.0327	-.0328	.0074	.0098
10706	.299	5986.9	39.67	5.17	1.7344	1.4097	.1524	-.0321	-.0390	-.0116	.0116
			.45	4.88	-.0070	.0167	-.0075	-.0106	.0247	-.0833	.0071
TEST TP NUM	24 MACH NUMB	0 PA	RUN ALPHA DEG	7 BETA DEG	CM	CA	CM	CRM	CYM	CY	
10681	.301	6037.7	.39	4.87	-.0009	.0156	-.0057	-.0104	.0238	-.0861	
10682	.300	6037.5	-3.72	4.40	-.2011	.0147	.0370	-.0031	.0180	-.0738	
10683	.301	6049.1	-1.98	4.97	-.1149	.0163	.0207	-.0049	.0196	-.0743	
10685	.301	6057.6	.67	4.99	-.0000	.0152	-.0057	-.0107	.0245	-.0873	
10686	.301	6048.8	2.00	4.87	.0746	.0161	-.0220	-.0133	.0246	-.0882	
10687	.300	6037.0	4.16	4.88	.2801	.0135	-.0450	-.0153	.0235	-.0875	
10688	.300	6008.9	6.04	5.01	.3179	.0112	-.0658	-.0172	.0211	-.0904	
10689	.300	6015.9	7.83	5.11	.4379	.0113	-.0658	-.0172	.0211	-.0921	
10690	.300	6025.1	9.86	5.17	.5496	.0101	-.0761	-.0226	.0228	-.0897	
10691	.299	5987.7	11.97	5.05	.6942	.0109	-.0742	-.0250	.0219	-.0921	
10692	.300	6038.9	13.71	5.09	.7882	.0090	-.0648	-.0264	.0231	-.0905	
10693	.300	6021.7	15.68	4.99	.9566	.0088	-.0590	-.0266	.0246	-.0928	
10695	.300	6023.6	17.75	5.16	1.1231	.0077	-.0602	-.0292	.0254	-.0928	
10696	.300	6023.6	19.84	4.96	1.2843	.0057	-.0690	-.0335	.0220	-.0870	
10697	.300	6009.1	21.76	5.01	1.4355	.0036	-.0686	-.0335	.0173	-.0778	
10699	.301	6053.7	23.69	4.71	1.5797	.0004	-.0658	-.0342	.0159	-.0702	
10699	.301	6067.7	25.90	4.93	1.7318	-.0040	-.0372	-.0366	.0162	-.0674	
10700	.301	6048.9	27.90	5.06	1.7898	-.0069	-.0372	-.0213	.0012	-.0487	
10701	.300	6013.3	29.81	5.05	1.8988	-.0093	.0564	-.0169	-.0157	-.0229	
10702	.299	5994.9	31.83	5.02	1.9907	-.0126	.0678	-.0117	-.0266	-.0094	
10703	.301	6067.5	33.58	4.90	2.0997	-.0147	.0817	-.0039	-.0365	-.0016	
10704	.300	6038.8	35.84	4.89	2.1488	-.0171	.1256	-.0135	-.0390	.0097	
10705	.300	6001.7	37.73	5.19	2.1764	-.0206	.1400	-.0058	-.0460	.0074	
10706	.299	5986.9	39.67	5.17	2.2349	-.0223	.1524	.0002	-.0506	-.0116	
			.45	4.88	-.0068	.0188	-.0075	-.0108	.0246	-.0833	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH	0 PA	RUN ALPHA2	7 BETA2	CL2	CD2	CM52	CRM52	CYM52	CY52	CDB2
NUM	NUM	NUM	DEG	DEG							
10681	.301	6057.7	.53	4.88	.0017	.0059	-.0004	-.0001	-.0128	-.0152	.0009
10682	.300	6037.5	-3.78	4.36	-.0563	.0092	-.0491	.0020	-.0116	-.0150	.0009
10683	.301	6049.1	-2.04	4.94	-.0279	.0068	-.0260	.0011	-.0117	-.0143	.0009
10685	.301	6057.6	.61	4.99	.0018	.0059	-.0003	-.0002	-.0130	-.0154	.0009
10686	.301	6048.8	1.94	4.90	.0237	.0077	.0191	-.0009	-.0135	-.0161	.0010
10687	.300	6037.0	4.10	4.94	.0657	.0079	.0535	-.0022	-.0134	-.0166	.0010
10688	.300	6008.9	5.98	5.09	.1054	.0154	.0845	-.0032	-.0141	-.0189	.0010
10689	.300	6015.9	7.78	5.22	.1491	.0745	.1203	-.0043	-.0142	-.0192	.0012
10690	.300	6025.1	9.79	5.29	.1945	.0866	.1574	-.0051	-.0136	-.0189	.0013
10691	.299	5987.7	11.91	5.21	.2543	.0564	.2072	-.0063	-.0134	-.0192	.0011
10692	.300	6038.9	13.64	5.26	.2925	.0726	.2394	-.0069	-.0127	-.0187	.0013
10693	.300	6021.7	15.62	5.19	.3569	.1000	.2941	-.0080	-.0124	-.0192	.0018
10694	.300	6022.0	17.69	5.38	.4147	.1311	.3441	-.0092	-.0117	-.0190	.0024
10695	.300	6023.6	19.78	5.21	.4718	.1670	.3956	-.0096	-.0109	-.0187	.0033
10696	.300	6009.1	21.69	5.28	.5236	.2040	.4442	-.0108	-.0098	-.0177	.0044
10697	.300	6015.3	23.63	5.01	.5700	.2430	.4895	-.0103	-.0088	-.0170	.0053
10698	.301	6051.7	25.84	5.25	.6297	.2957	.5492	-.0114	-.0083	-.0176	.0072
10699	.301	6067.7	27.84	5.41	.6749	.3442	.6031	-.0119	-.0081	-.0181	.0081
10700	.301	6048.9	29.75	5.42	.7056	.3883	.6480	-.0118	-.0085	-.0192	.0088
10701	.300	6013.9	31.77	5.42	.7230	.4299	.6830	-.0112	-.0098	-.0220	.0098
10702	.299	5994.9	33.52	5.32	.7483	.4757	.7240	-.0100	-.0116	-.0246	.0115
10703	.301	6067.5	35.78	5.32	.7575	.5228	.7662	-.0115	-.0115	-.0248	.0121
10704	.300	6038.8	37.67	5.65	.7511	.5532	.7857	-.0130	-.0152	-.0315	.0131
10705	.300	6001.7	39.62	5.64	.7517	.5921	.8159	-.0151	-.0192	-.0404	.0134
10706	.299	5986.9	.38	4.88	-.0012	.0060	-.0038	-.0002	-.0135	-.0159	.0009

TEST TP	24 MACH	0 PA	RUN ALPHA2	7 BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUM	NUM	DEG	DEG							
10681	.301	6057.7	.53	4.88	.0018	.0058	-.0004	-.0000	-.0128	-.0152	.0003
10682	.300	6037.5	-3.78	4.36	-.0567	.0055	-.0491	.0012	-.0117	-.0150	.0003
10683	.301	6049.1	-2.04	4.94	-.0281	.0058	-.0260	.0007	-.0117	-.0143	.0003
10685	.301	6057.6	.61	4.99	.0018	.0056	-.0003	-.0000	-.0130	-.0154	.0003
10686	.301	6048.8	1.94	4.90	.0239	.0059	.0191	-.0004	-.0136	-.0161	.0003
10687	.300	6037.0	4.10	4.94	.0662	.0052	.0535	-.0012	-.0135	-.0166	.0004
10688	.300	6008.9	5.98	5.09	.1065	.0044	.0845	-.0018	-.0144	-.0189	.0004
10689	.300	6015.9	7.78	5.22	.1511	.0041	.1203	-.0024	-.0147	-.0192	.0004
10690	.300	6025.1	9.79	5.29	.1979	.0030	.1574	-.0027	-.0143	-.0189	.0004
10691	.299	5987.7	11.91	5.21	.2605	.0027	.2072	-.0034	-.0144	-.0192	.0004
10692	.300	6038.9	13.64	5.26	.3014	.0015	.2394	-.0037	-.0140	-.0187	.0004
10693	.300	6021.7	15.62	5.19	.3707	.0003	.2941	-.0044	-.0141	-.0192	.0005
10694	.300	6022.0	17.69	5.38	.4349	-.0011	.3441	-.0052	-.0139	-.0190	.0007
10695	.300	6023.6	19.78	5.21	.5005	-.0025	.3956	-.0054	-.0135	-.0187	.0009
10696	.300	6009.1	21.69	5.28	.5621	-.0041	.4442	-.0064	-.0131	-.0177	.0012
10697	.300	6015.3	23.63	5.01	.6196	-.0058	.4895	-.0059	-.0122	-.0170	.0015
10698	.301	6053.7	25.84	5.25	.6956	-.0083	.5492	-.0066	-.0125	-.0176	.0019
10699	.301	6067.7	27.84	5.41	.7578	-.0109	.6031	-.0067	-.0127	-.0181	.0021
10700	.301	6048.9	29.75	5.42	.8053	-.0131	.6480	-.0060	-.0133	-.0192	.0023
10701	.300	6013.9	31.77	5.42	.8410	-.0152	.6830	-.0043	-.0142	-.0220	.0024
10702	.299	5994.9	33.52	5.32	.8866	-.0167	.7240	-.0020	-.0152	-.0246	.0029
10703	.301	6067.5	35.78	5.32	.9202	-.0188	.7662	-.0026	-.0161	-.0248	.0031
10704	.300	6038.8	37.67	5.65	.9326	-.0211	.7857	-.0010	-.0200	-.0315	.0032
10705	.300	6001.7	39.62	5.64	.9566	-.0233	.8159	.0006	-.0244	-.0404	.0032
10706	.299	5986.9	.38	4.88	-.0011	.0060	-.0038	-.0001	-.0135	-.0159	.0003

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
10707	.300	6022.8	.88	-4.90	-.0080	.0182	.0028	.0081	-.0280	.0633	.0073
10708	.300	6038.9	-2.63	-4.91	-.1739	.0238	.0293	.0031	-.0230	.0444	.0067
10709	.301	6041.7	-1.96	-3.12	-.1396	.0216	.0230	.0040	-.0238	.0485	.0068
10710	.300	6033.1	.67	-4.94	-.0202	.0177	.0052	.0078	-.0284	.0666	.0074
10711	.301	6070.2	2.08	-4.88	.0981	.0191	-.0096	.0098	-.0284	.0619	.0074
10712	.301	6040.9	3.79	-4.95	.1453	.0254	-.0279	.0121	-.0295	.0603	.0076
10713	.300	6024.5	5.99	-4.98	.2775	.0432	-.0521	.0140	-.0307	.0619	.0078
10714	.300	6006.7	8.07	-5.15	.4060	.0705	-.0661	.0185	-.0324	.0643	.0080
10715	.300	6035.3	9.95	-5.15	.5050	.0999	-.0675	.0214	-.0323	.0613	.0079
10716	.300	6030.7	11.95	-5.04	.6324	.1435	-.0603	.0236	-.0349	.0629	.0079
10717	.299	5998.6	14.02	-4.98	.7674	.2034	-.0534	.0242	-.0381	.0629	.0079
10718	.300	6020.9	16.05	-4.70	.8973	.2683	-.0497	.0237	-.0410	.0605	.0077
10719	.299	5987.1	18.01	-5.00	1.0038	.3350	-.0476	.0275	-.0461	.0604	.0077
10720	.300	6024.3	19.84	-4.86	1.1434	.4200	-.0511	.0331	-.0437	.0481	.0078
10721	.300	6026.3	21.94	-5.02	1.2684	.5151	-.0518	.0388	-.0455	.0405	.0072
10722	.300	6030.2	23.75	-5.09	1.3722	.6086	-.0411	.0425	-.0530	.0413	.0076
10723	.299	5997.4	25.68	-5.02	1.4951	.7100	-.0282	.0457	-.0538	.0311	.0072
10724	.301	6034.9	27.90	-4.80	1.5145	.7959	.0477	.0378	-.0204	-.0093	.0100
10725	.300	6034.1	29.62	-5.10	1.5432	.8686	.0637	.0466	.0144	-.0593	.0118
10726	.300	6038.9	31.72	-4.86	1.5772	.9626	.0800	.0465	.0392	-.0846	.0134
10727	.301	6052.4	33.83	-5.07	1.5971	1.0284	.0990	.0465	.0779	-.0810	.0165
10728	.301	6045.4	35.66	-4.92	1.5422	1.0874	.1234	.0528	.0823	-.0701	.0165
10729	.300	6033.9	37.87	-4.95	1.5687	1.1962	.1389	.0615	.0860	-.0559	.0169
10730	.301	6045.3	39.70	-5.07	1.5813	1.2837	.1446	.0679	.0851	-.0493	.0167
10731	.298	5944.9	.72	-5.07	-.0139	.0184	.0044	.0077	-.0270	.0657	.0071
10732	.300	6024.0	-.49	-.02	-.0518	.0184	.0098	-.0002	-.0025	-.0160	.0055

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
10707	.300	6022.8	.88	-4.90	-.0078	.0184	.0028	.0085	-.0279	.0633
10708	.300	6038.9	-2.63	-4.91	-.1748	.0158	.0293	.0020	-.0231	.0444
10709	.301	6041.7	-1.96	-3.12	-.1402	.0168	.0230	.0031	-.0239	.0485
10710	.300	6033.1	.67	-4.94	-.0200	.0179	.0052	.0082	-.0283	.0666
10711	.301	6070.2	2.08	-4.88	.0908	.0173	-.0096	.0108	-.0281	.0615
10712	.301	6040.9	3.79	-4.95	.1467	.0158	-.0271	.0141	-.0287	.0605
10713	.300	6024.5	5.99	-4.98	.2805	.0140	-.0521	.0171	-.0291	.0619
10714	.300	6006.7	8.07	-5.15	.4119	.0128	-.0661	.0229	-.0295	.0643
10715	.300	6035.3	9.95	-5.15	.5146	.0111	-.0675	.0266	-.0281	.0613
10716	.300	6030.7	11.95	-5.04	.6489	.0114	-.0603	.0303	-.0293	.0629
10717	.299	5998.6	14.02	-4.98	.7939	.0114	-.0554	.0327	-.0312	.0629
10718	.300	6020.9	16.05	-4.70	.9367	.0097	-.0497	.0341	-.0329	.0605
10719	.299	5987.1	18.01	-5.00	1.0601	.0076	-.0476	.0404	-.0353	.0604
10720	.300	6024.3	19.84	-4.86	1.2181	.0071	-.0511	.0459	-.0299	.0481
10721	.300	6024.5	21.94	-5.02	1.3690	.0040	-.0518	.0530	-.0278	.0405
10722	.301	6030.2	23.75	-5.09	1.4999	.0016	-.0411	.0603	-.0314	.0413
10723	.299	5997.4	25.68	-5.02	1.6385	-.0007	-.0281	.0645	-.0287	.0311
10724	.301	6034.9	27.90	-4.80	1.7109	-.0052	.0477	.0429	-.0003	-.0093
10725	.300	6004.1	29.62	-5.10	1.7708	-.0075	.0637	.0333	.0356	-.0593
10726	.300	6038.9	31.72	-4.86	1.8477	-.0106	.0800	.0189	.0578	-.0846
10727	.301	6052.4	33.83	-5.07	1.8660	-.0125	.0990	-.0047	.0906	-.0810
10728	.301	6045.4	35.66	-4.92	1.8869	-.0157	.1234	-.0051	.0977	-.0701
10729	.300	6033.9	37.87	-4.95	1.9726	-.0188	.1389	-.0042	.1056	-.0559
10730	.301	6045.3	39.70	-5.07	2.0366	-.0223	.1446	-.0020	.1088	-.0493
10731	.298	5944.9	.72	-5.07	-.0136	.0166	.0044	.0081	-.0269	.0657
10732	.300	6024.0	-.49	-.02	-.0520	.0180	.0098	-.0002	-.0025	-.0160

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUM	8							
TP				ALPHA2	BETA2	CL2	CD2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG	DEG							
10707	.300	6022.8	.95	-4.88	-0.047	.0062	.0047	.0004	.0121	.0142	.0010	
10708	.300	6038.9	-2.36	-4.95	-.0470	.0073	-.0440	-.0008	.0086	.0091	.0011	
10709	.301	6041.7	-1.90	-5.14	-.0366	.0065	-.0353	-.0006	.0094	.0103	.0010	
10710	.300	6033.1	.73	-4.93	.0017	.0060	.0019	.0003	.0125	.0149	.0011	
10711	.301	6070.2	2.15	-4.85	.0211	.0067	.0197	.0010	.0112	.0125	.0008	
10712	.301	6040.9	3.86	-4.90	.0320	.0093	.0450	.0022	.0108	.0121	.0009	
10713	.300	6024.5	6.06	-4.90	.0973	.0155	.0813	.0036	.0109	.0130	.0010	
10714	.300	6006.7	8.14	-5.04	.1448	.0250	.1192	.0049	.0110	.0136	.0012	
10715	.300	6035.3	10.02	-5.02	.1854	.0359	.1524	.0057	.0106	.0141	.0015	
10716	.300	6030.7	12.01	-4.88	.2406	.0538	.1977	.0070	.0103	.0144	.0016	
10717	.299	5998.6	14.09	-4.80	.2984	.0766	.2457	.0082	.0097	.0143	.0017	
10718	.300	6020.9	16.10	-4.50	.3537	.1025	.2931	.0090	.0083	.0131	.0017	
10719	.299	5987.1	18.07	-4.77	.3999	.1295	.3339	.0104	.0074	.0124	.0021	
10720	.300	6024.3	19.89	-4.61	.4531	.1627	.3832	.0114	.0067	.0124	.0030	
10721	.300	6026.5	22.00	-4.74	.5067	.2002	.4316	.0129	.0060	.0126	.0042	
10722	.300	6030.2	23.81	-4.79	.5543	.2381	.4780	.0144	.0052	.0127	.0053	
10723	.299	5997.4	25.73	-4.70	.6102	.2854	.5332	.0157	.0044	.0130	.0069	
10724	.301	6054.9	27.95	-4.45	.6524	.3341	.5875	.0158	.0045	.0137	.0078	
10725	.300	6004.1	29.67	-4.73	.6846	.3647	.6173	.0155	.0061	.0169	.0079	
10726	.300	6038.9	31.78	-4.47	.6794	.4042	.6514	.0143	.0083	.0211	.0091	
10727	.301	6052.4	33.88	-4.66	.6703	.4310	.6735	.0146	.0205	.0412	.0098	
10728	.301	6045.4	35.71	-4.49	.6744	.4625	.6948	.0161	.0249	.0506	.0105	
10729	.300	6033.9	37.92	-4.49	.6863	.5088	.7372	.0201	.0294	.0621	.0102	
10730	.301	6045.3	39.75	-4.59	.6898	.5441	.7622	.0227	.0304	.0665	.0103	
10731	.298	5944.9	.79	-5.06	.0031	.0054	.0034	.0003	.0116	.0137	.0009	
10732	.300	6024.0	-.49	-.03	-.0095	.0059	-.0101	.0002	-.0035	-.0060	-.0000	

TEST	24	MACH	Q	RUM	8							
TP				ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG	DEG							
10707	.300	6022.8	.95	-4.88	-0.047	.0062	.0047	.0002	.0121	.0142	.0003	
10708	.300	6038.9	-2.36	-4.95	-.0472	.0052	-.0440	-.0004	.0087	.0091	.0004	
10709	.301	6041.7	-1.90	-5.14	-.0368	.0053	-.0353	-.0003	.0094	.0103	.0003	
10710	.300	6033.1	.73	-4.93	.0018	.0060	.0019	.0001	.0125	.0149	.0004	
10711	.301	6070.2	2.15	-4.85	.0213	.0059	.0197	.0006	.0112	.0125	.0003	
10712	.301	6040.9	3.86	-4.90	.0325	.0058	.0457	.0014	.0109	.0121	.0003	
10713	.300	6024.5	6.06	-4.90	.0986	.0052	.0813	.0024	.0112	.0130	.0003	
10714	.300	6006.7	8.14	-5.04	.1469	.0042	.1192	.0033	.0116	.0136	.0004	
10715	.300	6035.3	10.02	-5.02	.1890	.0031	.1524	.0038	.0115	.0141	.0005	
10716	.300	6030.7	12.01	-4.88	.2465	.0025	.1977	.0047	.0116	.0144	.0005	
10717	.299	5998.6	14.09	-4.80	.3081	.0016	.2457	.0056	.0114	.0143	.0005	
10718	.300	6020.9	16.10	-4.50	.3682	.0004	.2931	.0063	.0104	.0131	.0005	
10719	.299	5987.1	18.07	-4.77	.4203	-.0009	.3339	.0076	.0102	.0124	.0006	
10720	.300	6024.3	19.89	-4.61	.4833	-.0019	.3832	.0085	.0101	.0124	.0008	
10721	.300	6026.5	22.00	-4.74	.5448	-.0042	.4316	.0097	.0103	.0126	.0011	
10722	.300	6030.2	23.81	-4.79	.6032	-.0060	.4780	.0111	.0106	.0127	.0014	
10723	.299	5997.4	25.73	-4.70	.6736	-.0079	.5332	.0122	.0107	.0130	.0017	
10724	.301	6054.9	27.95	-4.45	.7329	-.0107	.5875	.0118	.0114	.0137	.0019	
10725	.300	6004.1	29.67	-4.73	.7580	-.0121	.6173	.0105	.0130	.0169	.0020	
10726	.300	6038.9	31.78	-4.47	.7904	-.0142	.6514	.0077	.0148	.0211	.0023	
10727	.301	6052.4	33.88	-4.66	.7967	-.0159	.6735	.0007	.0252	.0412	.0024	
10728	.301	6045.4	35.71	-4.49	.8176	-.0181	.6948	-.0013	.0296	.0506	.0026	
10729	.300	6033.9	37.92	-4.49	.8341	-.0204	.7372	-.0022	.0335	.0621	.0025	
10730	.301	6045.3	39.75	-4.59	.8782	-.0227	.7622	-.0020	.0379	.0665	.0025	
10731	.298	5944.9	.79	-5.06	.0031	.0054	.0034	.0001	.0116	.0137	.0003	
10732	.300	6024.0	-.49	-.03	-.0096	.0058	-.0101	.0001	-.0035	-.0060	.0001	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMS	Q PA	RUN ALPHA DEG	9 BETA DEG	CL	CO	CMS	CRMS	CYMS	CYS	CDC
10745	.300	6036.2	.81	4.87	.0455	.0185	-.0099	-.0027	-.0117	-.0150	.0079
10746	.300	6018.3	-1.96	5.07	-.0920	.0204	.0153	.0029	-.0100	-.0064	.0072
10747	.300	6019.2	.84	4.96	.0461	.0174	-.0090	-.0025	-.0109	-.0115	.0078
10748	.300	6010.6	2.04	4.88	.1084	.0218	-.0238	-.0049	-.0109	-.0122	.0078
10749	.300	6019.0	3.99	4.93	.2114	.0294	-.0443	-.0071	-.0098	-.0097	.0074
10750	.300	5999.4	6.05	5.02	.3522	.0314	-.0686	-.0115	-.0095	-.0124	.0074
10751	.300	6004.4	7.90	5.19	.4584	.0754	-.0810	-.0153	-.0089	-.0167	.0074
10752	.300	6000.2	9.73	5.13	.5731	.1106	-.0798	-.0206	-.0077	-.0156	.0075
10753	.300	6013.6	11.89	4.97	.6798	.1543	-.0695	-.0207	-.0056	-.0130	.0074
10754	.300	6027.6	13.93	5.00	.8186	.2149	-.0638	-.0224	-.0038	-.0136	.0075
10755	.300	6021.3	15.96	5.04	.9431	.2796	-.0630	-.0230	-.0007	-.0185	.0077
10756	.300	6034.1	17.88	4.84	1.0790	.3573	-.0726	-.0260	.0022	-.0191	.0073
10757	.300	6010.4	19.88	5.11	1.2344	.4536	-.0739	-.0344	.0055	-.0167	.0070
10758	.300	6036.3	21.64	5.04	1.3216	.5283	-.0717	-.0392	.0091	-.0089	.0071
10759	.300	6009.3	23.95	5.12	1.4577	.6464	-.0431	-.0406	.0119	-.0079	.0074
10760	.300	6016.1	25.70	5.12	1.5624	.7499	-.0353	-.0429	.0132	-.0007	.0071
10761	.300	6015.4	27.89	4.74	1.6780	.8288	-.0404	-.0309	-.0071	.0167	.0090
10762	.300	6010.8	29.88	5.08	1.6446	.9237	.0535	-.0330	-.0119	.0242	.0088
10763	.301	6041.1	31.67	5.08	1.6962	1.0346	.0624	-.0340	-.0149	.0302	.0091
10764	.300	6019.9	33.59	4.94	1.7592	1.1533	.0790	-.0277	-.0192	.0223	.0085
10765	.300	6031.1	35.86	4.77	1.7489	1.2393	.1039	-.0289	-.0291	.0116	.0095
10766	.300	6022.8	37.75	5.14	1.7119	1.3028	.1300	-.0364	-.0250	.0074	.0109
10767	.301	6036.1	39.67	4.17	1.7512	1.4241	.1394	-.0319	-.0201	.0033	.0102
10768	.301	6052.2	39.49	5.24	1.7008	1.3747	.1357	-.0389	-.0287	-.0077	.0115
10769	.301	6045.1	.75	4.94	.0444	.0195	-.0094	-.0029	-.0115	-.0124	.0079
TEST TP NUM	24 MACH NUMS	Q PA	RUN ALPHA DEG	9 BETA DEG	CM	CA	CM	CRM	CYM	CY	
10745	.300	6036.2	.81	4.87	.0458	.0178	-.0099	-.0025	-.0118	-.0150	
10746	.300	6018.3	-1.96	5.07	-.0927	.0172	.0152	.0026	-.0101	-.0064	
10747	.300	6019.2	.84	4.96	.0463	.0167	-.0090	-.0023	-.0109	-.0115	
10748	.300	6010.6	2.04	4.88	.1091	.0179	-.0238	-.0045	-.0110	-.0122	
10749	.300	6019.0	3.99	4.93	.2129	.0146	-.0442	-.0064	-.0103	-.0097	
10750	.300	5999.4	6.05	5.02	.3557	.0140	-.0686	-.0105	-.0108	-.0124	
10751	.300	6004.4	7.90	5.19	.4617	.0121	-.0810	-.0140	-.0109	-.0167	
10752	.300	6000.2	9.73	5.13	.5835	.0122	-.0798	-.0190	-.0111	-.0156	
10753	.300	6013.6	11.89	4.97	.6970	.0110	-.0695	-.0191	-.0098	-.0130	
10754	.300	6027.6	13.93	5.00	.8462	.0115	-.0638	-.0208	-.0091	-.0136	
10755	.300	6021.3	15.96	5.04	.9836	.0094	-.0630	-.0220	-.0070	-.0185	
10756	.300	6034.1	17.88	4.84	1.1366	.0087	-.0726	-.0254	-.0059	-.0191	
10757	.300	6010.4	19.88	5.11	1.2151	.0086	-.0739	-.0342	-.0065	-.0167	
10758	.300	6033.6	21.64	5.04	1.4232	.0036	-.0717	-.0398	-.0060	-.0089	
10759	.300	6009.3	23.95	5.12	1.5953	.0009	-.0431	-.0419	-.0057	-.0079	
10760	.300	6016.1	25.70	5.12	1.7331	-.0018	-.0353	-.0444	-.0067	-.0007	
10761	.300	6015.4	27.89	4.74	1.7824	-.0056	.0404	-.0240	-.0207	.0167	
10762	.300	6010.8	29.88	5.08	1.8921	-.0080	.0535	-.0227	-.0268	.0242	
10763	.301	6041.1	31.67	5.08	1.9868	-.0101	.0624	-.0211	-.0305	.0302	
10764	.300	6019.9	33.59	4.94	2.1035	-.0125	.0790	-.0125	-.0313	.0223	
10765	.300	6031.1	35.86	4.77	2.1369	-.0153	.1039	-.0064	-.0405	.0116	
10766	.300	6022.8	37.75	5.14	2.1512	-.0179	.1300	-.0135	-.0421	.0074	
10767	.301	6036.1	39.67	4.17	2.2571	-.0218	.1396	-.0117	-.0358	.0033	
10768	.301	6052.2	39.49	5.24	2.1868	-.0208	.1357	-.0118	-.0469	-.0077	
10769	.301	6045.1	.75	4.94	.0446	.0189	-.0094	-.0028	-.0115	-.0124	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN	9	ALPHA2	BETA2	CL2	CO2	CMS2	CRM2	CYM2	CY2	CDB2
TP		MACH	PA	ALPHA2	BETA2	CL2	CO2	CMS2	CRM2	CYM2	CY2	CDB2		
10745	.300	6010.2	.75	4.88	.0007	.0076	.0002	-.0002	-.0134	-.0162	.0010			
10746	.300	6010.3	-2.03	5.03	-.0304	.0082	-.0280	.0012	-.0111	-.0134	.0011			
10747	.300	6010.2	.77	4.97	.0009	.0070	.0005	-.0002	-.0128	-.0134	.0010			
10748	.300	6010.4	1.97	4.90	.0267	.0082	.0243	-.0003	-.0131	-.0156	.0011			
10749	.300	6019.0	3.92	4.98	.0394	.0105	.0311	-.0018	-.0122	-.0146	.0011			
10750	.300	5999.4	5.99	5.10	.1002	.0174	.0898	-.0033	-.0130	-.0163	.0012			
10751	.300	6004.4	7.03	5.29	.1463	.0254	.1200	-.0041	-.0131	-.0172	.0012			
10752	.300	6000.2	9.66	5.26	.1951	.0379	.1604	-.0053	-.0131	-.0174	.0014			
10753	.300	6013.6	11.82	5.13	.2498	.0546	.2011	-.0058	-.0116	-.0153	.0014			
10754	.300	6027.6	13.86	5.17	.3028	.0778	.2501	-.0071	-.0116	-.0164	.0015			
10755	.300	6021.3	15.90	5.24	.3547	.1022	.2942	-.0080	-.0114	-.0174	.0018			
10756	.300	6034.1	17.82	5.07	.4081	.1310	.3410	-.0085	-.0105	-.0169	.0024			
10757	.300	6010.4	19.81	5.37	.4721	.1689	.3981	-.0106	-.0103	-.0174	.0033			
10758	.300	6033.6	21.98	5.31	.5087	.1978	.4333	-.0117	-.0089	-.0156	.0040			
10759	.300	6009.3	23.88	5.42	.5763	.2497	.4985	-.0135	-.0085	-.0169	.0056			
10760	.300	6016.1	25.84	5.44	.6224	.2908	.5447	-.0144	-.0075	-.0166	.0072			
10761	.300	6015.4	27.83	5.88	.6447	.3397	.5988	-.0141	-.0069	-.0163	.0079			
10762	.300	6010.8	29.82	5.45	.6916	.3827	.6415	-.0144	-.0084	-.0199	.0085			
10763	.301	6041.1	31.61	5.47	.7116	.4216	.6776	-.0148	-.0102	-.0237	.0101			
10764	.300	6019.9	33.53	5.35	.7383	.4698	.7212	-.0132	-.0123	-.0268	.0119			
10765	.300	6031.1	35.80	5.21	.7559	.5080	.7476	-.0147	-.0191	-.0388	.0134			
10766	.300	6022.8	37.69	5.39	.7305	.5391	.7725	-.0183	-.0220	-.0458	.0124			
10767	.301	6036.1	39.63	4.85	.7459	.5889	.8102	-.0166	-.0191	-.0403	.0136			
10768	.301	6052.2	39.44	5.71	.7257	.5682	.7903	-.0210	-.0256	-.0538	.0128			
10769	.301	6045.1	.68	4.95	.6090	.6071	.6086	-.0002	-.0133	-.0158	.0011			
TEST	24	MACH	Q	RUN	9	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		MACH	PA	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2		
10745	.300	6010.2	.75	4.88	.0008	.0073	.0082	-.0000	-.0134	-.0162	.0002			
10746	.300	6010.3	-2.03	5.03	-.0309	.0072	-.0283	.0008	-.0111	-.0134	.0003			
10747	.300	6010.2	.77	4.97	.0090	.0069	.0005	-.0000	-.0128	-.0134	.0002			
10748	.300	6010.4	1.97	4.90	.0270	.0072	.0243	-.0003	-.0132	-.0156	.0003			
10749	.300	6019.0	3.92	4.98	.0600	.0084	.0311	-.0009	-.0123	-.0146	.0003			
10750	.300	5999.4	5.99	5.10	.1094	.0060	.0898	-.0019	-.0133	-.0163	.0003			
10751	.300	6004.4	7.03	5.29	.1484	.0052	.1200	-.0023	-.0136	-.0172	.0003			
10752	.300	6000.2	9.66	5.26	.1987	.0047	.1604	-.0030	-.0136	-.0174	.0004			
10753	.300	6013.6	11.82	5.13	.2498	.0035	.2011	-.0033	-.0125	-.0155	.0004			
10754	.300	6027.6	13.86	5.17	.3126	.0030	.2501	-.0042	-.0130	-.0164	.0004			
10755	.300	6021.3	15.90	5.24	.3691	.0012	.2942	-.0045	-.0132	-.0174	.0005			
10756	.300	6034.1	17.82	5.07	.4287	-.0002	.3410	-.0049	-.0127	-.0169	.0006			
10757	.300	6010.4	19.81	5.37	.5014	-.0011	.3981	-.0064	-.0133	-.0174	.0008			
10758	.300	6033.6	21.98	5.31	.5453	-.0031	.4333	-.0076	-.0126	-.0156	.0010			
10759	.300	6009.3	23.88	5.42	.6281	-.0050	.4985	-.0090	-.0132	-.0169	.0014			
10760	.300	6016.1	25.84	5.44	.6870	-.0072	.5447	-.0098	-.0130	-.0166	.0017			
10761	.300	6015.4	27.83	5.88	.7464	-.0100	.5930	-.0092	-.0127	-.0163	.0019			
10762	.300	6010.8	29.82	5.49	.7903	-.0120	.6415	-.0083	-.0145	-.0199	.0020			
10763	.301	6041.1	31.61	5.47	.8270	-.0139	.6776	-.0073	-.0165	-.0237	.0024			
10764	.300	6019.9	33.53	5.35	.8750	-.0162	.7212	-.0042	-.0175	-.0268	.0027			
10765	.300	6031.1	35.80	5.21	.8940	-.0185	.7476	-.0087	-.0241	-.0388	.0031			
10766	.300	6022.8	37.69	5.39	.9077	-.0201	.7725	-.0080	-.0246	-.0458	.0028			
10767	.301	6036.1	39.63	4.85	.9301	-.0221	.8102	-.0085	-.0253	-.0403	.0031			
10768	.301	6052.2	39.44	5.71	.9214	-.0222	.7903	.0000	-.0331	-.0538	.0029			
10769	.301	6045.1	.68	4.95	.0090	.0070	.6006	-.0000	-.0133	-.0158	.0003			

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH	Q PA	RUN ALPHA	10 DEG	WEYA DEG	CL	CO	CMS	CRMS	CYMS	CYS	CDC
MUM	MUMS	PA	ALPHA	DEG	DEG							
10770	.300	6029.6	.47	-4.82	.0086	.0176	-.0049	-.0010	.0091	.0268	.0076	
10771	.301	6037.5	-2.16	-4.77	-.0807	.0200	.0207	-.0046	.0081	.0273	.0070	
10772	.301	6045.1	.44	-4.98	.0063	.0166	-.0049	-.0007	.0100	.0287	.0079	
10773	.301	6056.2	2.01	-4.93	.0804	.0195	-.0215	.0024	.0094	.0276	.0073	
10774	.300	6030.6	4.11	-4.88	.2105	.0210	-.0451	.0061	.0099	.0292	.0074	
10775	.300	6028.2	6.06	-5.09	.3218	.0470	-.0636	.0089	.0099	.0319	.0073	
10776	.300	6008.3	8.09	-4.93	.4598	.0788	-.0774	.0143	.0097	.0312	.0073	
10777	.301	6036.4	9.98	-5.13	.5539	.1097	-.0745	.0184	.0093	.0284	.0073	
10778	.300	6015.7	11.71	-5.02	.6676	.1512	-.0666	.0200	.0090	.0274	.0074	
10779	.300	6024.2	13.74	-4.83	.7810	.2020	-.0626	.0201	.0074	.0260	.0074	
10780	.301	6041.6	15.94	-4.86	.9407	.2788	-.0576	.0227	.0047	.0232	.0078	
10781	.300	6010.7	17.86	-4.87	1.0605	.3508	-.0558	.0277	.0018	.0166	.0060	
10782	.300	6025.6	19.83	-4.93	1.1961	.4388	-.0609	.0339	-.0012	.0117	.0077	
10783	.301	6034.3	21.92	-4.89	1.3135	.5327	-.0558	.0357	-.0020	.0068	.0069	
10784	.300	6016.5	23.84	-4.72	1.4584	.6465	-.0528	.0416	-.0035	-.0015	.0070	
10785	.300	6024.6	25.60	-5.25	1.5474	.7405	-.0344	.0460	-.0079	-.0040	.0069	
10786	.300	6032.8	27.72	-4.93	1.5946	.8102	.0392	.0312	.0115	-.0174	.0092	
10787	.300	6010.0	29.83	-4.76	1.6361	.9288	.0572	.0316	.0168	-.0280	.0095	
10788	.300	6010.5	31.80	-5.10	1.6885	1.0337	.0650	.0344	.0211	-.0351	.0094	
10789	.300	6010.5	33.76	-4.94	1.6895	1.1149	.0821	.0339	.0296	-.0363	.0110	
10790	.301	6034.6	35.62	-5.04	1.6921	1.2023	.0936	.0330	.0388	-.0163	.0109	
10791	.300	6028.1	37.61	-5.13	1.7054	1.2998	.1258	.0421	.0336	-.0177	.0112	
10792	.301	6045.1	39.45	-5.04	1.7169	1.3869	.1340	.0424	.0310	-.0115	.0110	
10793	.301	6060.2	.57	-5.00	.0116	.0161	-.0030	.0000	.0098	.0258	.0079	

TEST TP	24 MACH	Q PA	RUN ALPHA	10 DEG	WEYA DEG	CM	CA	CM	CRM	CYM	CY	
MUM	MUMS	PA	ALPHA	DEG	DEG							
10770	.300	6029.6	.47	-4.82	.0086	.0175	-.0049	-.0011	.0091	.0268		
10771	.301	6037.5	-2.16	-4.77	-.0814	.0169	.0107	-.0045	.0082	.0273		
10772	.301	6045.1	.44	-4.98	.0064	.0185	-.0049	-.0008	.0100	.0287		
10773	.301	6056.2	2.01	-4.93	.0810	.0166	-.0215	.0020	.0095	.0276		
10774	.300	6030.6	4.11	-4.88	.2122	.0158	-.0451	.0053	.0104	.0292		
10775	.300	6028.2	6.06	-5.09	.3250	.0127	-.0438	.0078	.0108	.0319		
10776	.300	6008.3	8.09	-4.93	.4663	.0134	-.0474	.0128	.0116	.0312		
10777	.301	6036.4	9.98	-5.13	.5645	.0120	-.0445	.0166	.0123	.0284		
10778	.300	6015.7	11.71	-5.02	.6844	.0127	-.0466	.0178	.0129	.0274		
10779	.300	6024.2	13.74	-4.83	.8068	.0107	-.0526	.0178	.0120	.0260		
10780	.301	6041.6	15.94	-4.86	.9811	.0047	-.0576	.0205	.0108	.0232		
10781	.300	6010.7	17.86	-4.87	1.1170	.0087	-.0458	.0258	.0102	.0166		
10782	.300	6025.6	19.83	-4.93	1.2741	.0070	-.0405	.0323	.0103	.0117		
10783	.301	6034.3	21.92	-4.89	1.4174	.0039	-.0458	.0339	.0215	.0068		
10784	.300	6016.5	23.84	-4.72	1.5953	.0018	-.0428	.0403	.0117	-.0013		
10785	.300	6024.6	25.60	-5.25	1.7154	-.0004	-.0446	.0449	.0127	-.0040		
10786	.300	6032.8	27.72	-4.93	1.7531	-.0059	.0392	.0222	.0247	-.0174		
10787	.300	6010.0	29.83	-4.76	1.8813	-.0081	.0572	.0181	.0320	-.0280		
10788	.300	6010.5	31.80	-5.10	1.9795	-.0113	.0550	.0181	.0361	-.0351		
10789	.300	6010.5	33.76	-4.94	2.0242	-.0122	.0521	.0117	.0435	-.0363		
10790	.301	6034.6	35.62	-5.04	2.0757	-.0155	.0536	.0041	.0507	-.0163		
10791	.300	6028.1	37.61	-5.13	2.1442	-.0186	.1258	.0127	.0523	-.0177		
10792	.301	6045.1	39.45	-5.04	2.2085	-.0211	.1340	.0130	.0509	-.0115		
10793	.301	6060.2	.57	-5.00	.0116	.0160	-.0330	-.0001	.0098	.0258		

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24	TP	HACH	0	RUN 10	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDR2
NUM	NUMB	PA	DEG	DEG									
10770	.300	6029.8	.53	-4.81	.0012	.0067	.0007	.0003	.0119	.0141	.0010		
10771	.301	6037.5	-2.10	-4.80	.0246	.0074	-.0217	-.0006	.0110	.0131	.0011		
10772	.301	6045.1	.51	-4.98	.0003	.0072	-.0001	.0003	.0129	.0152	.0011		
10773	.301	6056.2	2.07	-4.93	.0211	.0076	.0184	.0011	.0119	.0141	.0008		
10774	.300	6030.6	4.17	-4.82	.0644	.0115	.0542	.0026	.0125	.0156	.0009		
10775	.300	6028.2	6.13	-5.01	.1022	.0166	.0845	.0038	.0128	.0169	.0010		
10776	.300	6008.3	8.15	-4.83	.1528	.0272	.1255	.0049	.0126	.0174	.0013		
10777	.301	6036.4	10.05	-5.00	.1933	.0383	.1590	.0058	.0120	.0170	.0015		
10778	.300	6015.7	11.77	-4.87	.2429	.0549	.2001	.0067	.0116	.0170	.0013		
10779	.300	6024.2	13.80	-4.65	.2913	.0742	.2406	.0073	.0107	.0166	.0015		
10780	.301	6041.6	16.00	-4.86	.3590	.1045	.2979	.0087	.0097	.0160	.0019		
10781	.300	6010.7	17.92	-4.64	.4097	.1328	.3429	.0098	.0085	.0146	.0023		
10782	.300	6023.6	19.89	-4.68	.4635	.1666	.3911	.0107	.0074	.0139	.0033		
10783	.301	6034.3	21.98	-4.41	.5145	.2040	.4396	.0111	.0069	.0142	.0047		
10784	.300	6016.5	23.90	-4.42	.5748	.2493	.4971	.0120	.0056	.0133	.0062		
10785	.300	6024.6	25.86	-4.92	.6194	.2900	.5422	.0139	.0057	.0151	.0073		
10786	.300	6032.8	27.77	-4.58	.6557	.3349	.5882	.0129	.0054	.0148	.0077		
10787	.300	6010.0	29.88	-4.39	.6917	.3847	.6413	.0122	.0062	.0164	.0083		
10788	.300	6010.5	31.86	-4.70	.7100	.4254	.6763	.0127	.0079	.0201	.0096		
10789	.300	6010.5	33.82	-4.52	.7134	.4593	.7055	.0134	.0124	.0274	.0112		
10790	.301	6034.6	35.87	-4.60	.7144	.4947	.7300	.0142	.0192	.0397	.0125		
10791	.300	6028.1	37.86	-4.67	.7283	.5406	.7728	.0169	.0206	.0445	.0137		
10792	.301	6045.1	39.50	-4.57	.7343	.5771	.7986	.0174	.0201	.0442	.0131		
10793	.301	6060.2	.64	-4.99	.0032	.0068	.0033	.0003	.0126	.0146	.0011		
TEST 24	TP	HACH	0	RUN 10	ALPHA2	BETA2	CH2	CA2	CH2	CRM2	CYM2	CY2	CCR2
NUM	NUMB	PA	DEG	DEG									
10770	.300	6029.8	.53	-4.81	.0012	.0067	.0037	.0002	.0119	.0141	.0003		
10771	.301	6037.5	-2.10	-4.80	.0246	.0065	-.0217	-.0002	.0110	.0131	.0003		
10772	.301	6045.1	.51	-4.98	.0004	.0072	-.0001	.0002	.0129	.0152	.0003		
10773	.301	6056.2	2.07	-4.93	.0214	.0068	.0154	.0007	.0119	.0141	.0003		
10774	.300	6030.6	4.17	-4.82	.0651	.0068	.0542	.0017	.0126	.0156	.0002		
10775	.300	6028.2	6.13	-5.01	.1033	.0056	.0845	.0024	.0131	.0169	.0003		
10776	.300	6008.3	8.15	-4.83	.1351	.0053	.1255	.0030	.0131	.0174	.0003		
10777	.301	6036.4	10.05	-5.00	.1970	.0040	.1590	.0036	.0128	.0170	.0004		
10778	.300	6015.7	11.77	-4.87	.2490	.0042	.2001	.0042	.0127	.0170	.0003		
10779	.300	6024.2	13.80	-4.65	.3006	.0026	.2406	.0046	.0121	.0166	.0004		
10780	.301	6041.6	16.00	-4.86	.3739	.0015	.2979	.0037	.0117	.0160	.0005		
10781	.300	6010.7	17.92	-4.64	.4307	.0003	.3429	.0067	.0111	.0146	.0006		
10782	.300	6023.6	19.89	-4.68	.4925	-.0010	.3911	.0076	.0107	.0139	.0008		
10783	.301	6034.3	21.98	-4.61	.5535	-.0034	.4396	.0077	.0106	.0142	.0011		
10784	.300	6016.5	23.90	-4.42	.6265	-.0049	.4971	.0087	.0100	.0133	.0015		
10785	.300	6024.6	25.86	-4.92	.6839	-.0068	.5422	.0101	.0112	.0151	.0018		
10786	.300	6032.8	27.77	-4.58	.7362	-.0092	.5882	.0089	.0108	.0148	.0019		
10787	.300	6010.0	29.88	-4.39	.7914	-.0111	.6413	.0075	.0115	.0164	.0021		
10788	.300	6010.5	31.86	-4.70	.8276	-.0134	.6763	.0066	.0134	.0201	.0024		
10789	.300	6010.5	33.82	-4.52	.8483	-.0154	.7055	.0042	.0177	.0274	.0027		
10790	.301	6034.6	35.87	-4.60	.8608	-.0177	.7300	.0003	.0239	.0397	.0030		
10791	.300	6028.1	37.86	-4.67	.9068	-.0202	.7728	.0007	.0267	.0445	.0030		
10792	.301	6045.1	39.50	-4.57	.9337	-.0217	.7986	.0007	.0266	.0442	.0031		
10793	.301	6060.2	.64	-4.99	.0033	.0068	.0133	.0002	.0126	.0146	.0003		



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUM	Q PA	RUN ALPHA DEG	21 BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
11040	.301	6038.5	-.43	-.01	-.0113	.0156	.0047	.0001	-.0017	.0025	.0057
11041	.301	6036.2	-3.97	-.07	-.1781	.0247	.0818	.0006	-.0020	.0051	.0058
11042	.301	6035.0	-2.20	-.04	-.0897	.0182	.0389	.0002	-.0017	.0023	.0057
11043	.301	6048.3	-.63	-.01	-.0024	.0172	.0004	.0001	-.0016	.0014	.0057
11044	.301	6036.4	1.90	.02	.1106	.0194	-.0502	.0003	-.0013	.0009	.0057
11045	.301	6038.9	4.04	.05	.2242	.0279	-.1058	.0003	-.0010	-.0026	.0060
11046	.300	6028.0	5.89	.08	.3100	.0406	-.1474	.0007	-.0007	-.0039	.0063
11047	.300	6018.1	7.82	.13	.4255	.0645	-.2018	.0004	-.0006	-.0063	.0067
11048	.300	5999.2	10.31	.22	.5781	.1082	-.2652	.0004	-.0005	-.0098	.0073
11049	.300	6004.5	11.91	.24	.6408	.1362	-.2795	.0004	-.0006	-.0095	.0075
11050	.300	6010.0	13.85	.29	.7128	.1740	-.3025	.0008	-.0006	-.0106	.0075
11051	.300	6008.8	15.87	.31	.8193	.2303	-.3390	.0037	-.0003	-.0122	.0074
11052	.300	6020.2	17.95	.34	.9130	.2913	-.3741	.0004	-.0001	-.0140	.0069
11053	.300	6001.7	19.71	.38	.9721	.3406	-.3998	.0006	.0004	-.0158	.0065
11054	.300	5996.5	21.72	.42	1.0559	.4123	-.4355	.0008	.0013	-.0164	.0063
11055	.300	6014.1	23.71	.45	1.1461	.4922	-.4813	.0004	.0021	-.0177	.0066
11056	.300	6002.9	25.60	.45	1.2290	.5796	-.5258	.0027	.0017	-.0149	.0074
11057	.301	6060.7	27.62	.39	1.2578	.6418	-.5446	.0043	.0000	-.0099	.0079
11058	.301	6038.6	29.87	.46	1.2329	.6937	-.5399	.0075	-.0071	.0016	.0093
11059	.300	6024.9	31.62	.57	1.1867	.7202	-.5256	.0014	.0050	-.0240	.0108
11061	.300	5996.2	33.54	.64	1.1816	.7715	-.5383	.0006	.0074	-.0380	.0108
11062	.300	6019.0	35.53	.65	1.1661	.8224	-.5574	.0025	.0074	-.0342	.0111
11063	.298	5957.2	-.43	-.00	-.0151	.0156	.0040	.0000	-.0013	-.0069	.0057
TEST TP NUM	24 MACH NUM	Q PA	RUN ALPHA DEG	21 BETA DEG	CM	CA	CM	CRM	CYM	CY	
11040	.301	6038.5	-.43	-.01	-.0113	.0155	.0047	.0001	-.0017	.0025	
11041	.301	6036.2	-3.97	-.07	-.1796	.0122	.0818	.0004	-.0021	.0051	
11042	.301	6035.0	-2.20	-.04	-.0903	.0148	.0389	.0001	-.0017	.0023	
11043	.301	6048.3	-.63	-.01	-.0024	.0172	.0004	.0001	-.0016	.0014	
11044	.301	6036.4	1.90	.02	.1112	.0157	-.0402	.0003	-.0013	.0009	
11045	.301	6038.9	4.04	.05	.2256	.0120	-.1058	.0003	-.0010	-.0026	
11046	.300	6028.0	5.89	.08	.3126	.0085	-.1474	.0008	-.0006	-.0039	
11047	.300	6018.1	7.82	.13	.4303	.0060	-.2018	.0005	-.0006	-.0065	
11048	.300	5999.2	10.31	.22	.5881	.0029	-.2652	.0004	-.0004	-.0098	
11049	.300	6004.5	11.91	.24	.6552	.0011	-.2795	.0005	-.0005	-.0095	
11050	.300	6010.0	13.85	.29	.7338	-.0017	-.3025	.0009	-.0004	-.0106	
11051	.300	6008.8	15.87	.31	.8511	-.0025	-.3190	.0008	-.0001	-.0122	
11052	.300	6020.2	17.95	.34	.9583	-.0043	-.3741	.0004	.0001	-.0140	
11053	.300	6001.7	19.71	.38	1.0300	-.0071	-.3998	.0004	.0006	-.0158	
11054	.300	5996.5	21.72	.42	1.1335	-.0077	-.4133	.0004	.0012	-.0164	
11055	.300	6014.1	23.71	.45	1.2473	-.0103	-.4413	-.0005	.0021	-.0177	
11056	.300	6002.9	25.60	.45	1.3587	-.0131	-.5258	.0017	-.0027	-.0149	
11057	.301	6060.7	27.62	.39	1.4120	-.0144	-.5446	.0038	.0020	-.0099	
11058	.301	6038.6	29.87	.46	1.4146	-.0124	-.5399	.0101	-.0024	.0018	
11059	.300	6024.9	31.62	.57	1.3981	-.0089	-.5256	-.0014	.0050	-.0240	
11061	.300	5996.2	33.54	.64	1.4111	-.0099	-.5383	-.0036	.0065	-.0380	
11062	.300	6019.0	35.53	.65	1.4269	-.0082	-.5574	-.0023	.0075	-.0342	
11063	.298	5957.2	-.43	-.00	-.0152	.0155	.0140	.0000	-.0013	-.0069	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN	21								
TP	RACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CTMS2	CYS2	CD2		
NUM	NUMB	PA	DEG	DEG									
11040	.301	6038.5	-4.43	-0.02	-0.0006	.0040	-.0017	.0000	-.0003	-.0005	-.0026		
11041	.301	6036.2	-3.97	-0.12	-0.0073	.0042	-.0139	.0000	-.0001	-.0001	-.0025		
11042	.301	6035.0	-2.20	-0.06	-0.0037	.0038	-.0075	.0000	-.0002	-.0005	-.0026		
11043	.301	6048.3	-.63	-0.02	.0009	.0041	.0003	.0000	-.0001	-.0002	-.0026		
11044	.301	6036.4	1.90	.04	.0069	.0043	.0103	.0000	-.0000	.0001	-.0025		
11045	.301	6038.9	4.04	.10	.0103	.0046	.0174	-.0000	-.0003	-.0004	-.0022		
11046	.300	6028.0	5.89	.15	.0137	.0045	.0231	-.0000	-.0003	-.0005	-.0020		
11047	.300	6018.1	7.82	.23	.0180	.0052	.0305	-.0001	-.0005	-.0008	-.0015		
11048	.300	5999.2	10.31	.36	.0243	.0070	.0412	-.0001	-.0008	-.0012	-.0005		
11049	.300	6004.5	11.90	.39	.0290	.0082	.0483	-.0002	-.0005	-.0013	-.0001		
11050	.300	6010.0	13.85	.47	.0337	.0093	.0556	-.0002	-.0007	-.0011	.0004		
11051	.300	6008.8	15.86	.51	.0403	.0125	.0659	-.0002	-.0007	-.0010	.0012		
11052	.300	6020.2	17.93	.57	.0462	.0152	.0750	-.0002	-.0008	-.0012	.0019		
11053	.300	6001.7	19.70	.64	.0525	.0168	.0809	-.0003	-.0008	-.0013	.0024		
11054	.300	5996.5	21.72	.69	.0571	.0206	.0912	-.0002	-.0006	-.0008	.0033		
11055	.300	6014.1	23.71	.75	.0628	.0245	.1005	-.0002	-.0006	-.0007	.0043		
11056	.300	6002.9	25.79	.77	.0687	.0288	.1101	.0000	-.0000	.0006	.0054		
11057	.301	6060.7	27.61	.73	.0725	.0319	.1164	.0002	.0003	.0014	.0060		
11058	.301	6038.6	29.86	.83	.0780	.0368	.1261	.0005	.0007	.0025	.0061		
11059	.300	6024.9	31.61	.96	.0816	.0410	.1334	-.0003	-.0006	-.0010	.0061		
11061	.300	5996.2	33.53	1.05	.0846	.0446	.1393	-.0016	-.0023	-.0062	.0064		
11062	.300	6019.0	35.52	1.08	.0894	.0498	.1484	-.0016	-.0022	-.0064	.0065		
11063	.298	5957.2	-.43	-.01	-.0008	.0035	-.0015	.0000	-.0005	-.0011	-.0027		

TEST	24			RUN	21							
TP	RACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2	
NUM	NUMB	PA	DEG	DEG								
11040	.301	6038.5	-4.43	-0.02	-.0006	.0040	-.0017	.0000	-.0003	-.0005	-.0006	
11041	.301	6036.2	-3.97	-0.12	-.0073	.0037	-.0139	.0000	-.0001	-.0001	-.0006	
11042	.301	6035.0	-2.20	-0.06	-.0038	.0037	-.0075	.0000	-.0002	-.0005	-.0006	
11043	.301	6048.3	-.63	-0.02	.0009	.0041	.0003	.0000	-.0001	-.0002	-.0006	
11044	.301	6036.4	1.90	.04	.0070	.0041	.0103	.0000	-.0000	.0001	-.0006	
11045	.301	6038.9	4.04	.10	.0106	.0039	.0174	.0000	-.0003	-.0004	-.0005	
11046	.300	6028.0	5.89	.15	.0141	.0031	.0231	.0000	-.0003	-.0005	-.0005	
11047	.300	6018.1	7.82	.23	.0185	.0028	.0305	.0000	-.0005	-.0008	-.0004	
11048	.300	5999.2	10.31	.36	.0251	.0025	.0412	.0000	-.0008	-.0012	-.0001	
11049	.300	6004.5	11.90	.39	.0300	.0020	.0483	.0000	-.0008	-.0013	-.0000	
11050	.300	6010.0	13.85	.47	.0350	.0012	.0556	.0000	-.0007	-.0011	.0001	
11051	.300	6008.8	15.86	.51	.0422	.0010	.0599	.0000	-.0007	-.0010	.0003	
11052	.300	6020.2	17.93	.57	.0486	.0003	.0750	.0000	-.0008	-.0012	.0005	
11053	.300	6001.7	19.70	.64	.0525	-.0011	.0809	.0000	-.0008	-.0013	.0006	
11054	.300	5996.5	21.72	.69	.0602	-.0018	.0912	.0000	-.0006	-.0008	.0008	
11055	.300	6014.1	23.71	.75	.0673	-.0028	.1005	.0000	-.0006	-.0007	.0011	

11056	.300	6002.9	25.79	.77	.0744	-.0040	.1101	.0000	-.0000	.0006	.0014	
11057	.301	6060.7	27.61	.73	.0790	-.0054	.1164	.0001	.0004	.0014	.0015	
11058	.301	6038.6	29.86	.83	.0860	-.0069	.1261	.0001	.0009	.0025	.0015	
11059	.300	6024.9	31.61	.96	.0910	-.0079	.1334	.0000	-.0007	-.0010	.0016	
11061	.300	5996.2	33.53	1.05	.0952	-.0095	.1393	-.0000	-.0028	-.0062	.0016	
11062	.300	6019.0	35.52	1.08	.1017	-.0113	.1484	-.0000	-.0028	-.0064	.0017	
11063	.298	5957.2	-.43	-.01	-.0008	.0035	-.0015	.0000	-.0005	-.0011	-.0007	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH	Q	RUN ALPHA	26 BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMS	PA	DEG	DEG							
11150	.300	6048.5	-.42	-.02	-.0083	.0172	.0050	-.0001	-.0021	.0185	.0057
11151	.300	6028.1	-3.94	-.05	-.1792	.0282	.0616	-.0000	-.0019	.0190	.0057
11152	.300	6054.3	-1.98	-.04	-.0732	.0201	.0264	-.0001	-.0017	.0153	.0057
11153	.301	6075.7	-.62	-.02	-.0001	.0191	.0014	.0000	-.0016	.0143	.0057
11154	.300	6046.1	1.89	.02	.1149	.0217	-.0378	-.0003	-.0013	.0109	.0056
11155	.301	6067.8	3.98	.04	.2303	.0315	-.0760	.0001	-.0013	.0097	.0059
11156	.300	6044.0	6.06	.06	.3513	.0510	-.1150	-.0009	-.0008	.0082	.0062
11157	.300	6038.1	8.03	.08	.4675	.0782	-.1456	.0003	-.0007	.0066	.0065
11158	.300	6044.1	9.88	.09	.5467	.1057	-.1570	-.0001	-.0002	.0049	.0064
11159	.300	6039.9	11.83	.08	.6782	.1538	-.1765	-.0001	-.0004	.0030	.0062
11160	.300	6046.0	13.86	.08	.8267	.2177	-.2282	-.0010	.0005	.0009	.0069
11161	.300	6045.8	15.83	.13	.9500	.2805	-.2657	-.0020	.0012	-.0031	.0070
11162	.299	6000.2	17.86	.10	1.1081	.3674	-.3078	-.0027	.0017	-.0044	.0067
11163	.300	6029.6	19.78	.12	1.2833	.4407	-.3310	-.0029	.0023	-.0070	.0066
11164	.299	6007.3	21.94	.13	1.3611	.5342	-.3656	-.0017	.0030	-.0100	.0061
11165	.300	6055.6	23.78	.21	1.4363	.6354	-.3790	-.0013	.0042	-.0151	.0058
11166	.300	6019.1	25.81	.25	1.5616	.7552	-.3947	-.0002	.0038	-.0171	.0055
11167	.300	6024.2	27.83	.21	1.4745	.7704	-.2644	.0010	.0027	-.0151	.0071
11168	.300	6049.4	29.86	.15	1.4834	.8346	-.2163	.0004	.0035	-.0150	.0071
11169	.301	6067.8	31.67	.14	1.4921	.9081	-.1976	.0013	.0032	-.0166	.0071
11170	.299	6018.8	33.60	.21	1.5284	1.0001	-.1852	.0016	.0030	-.0208	.0071
11171	.300	6040.6	35.59	.25	1.5495	1.0803	-.1710	.0016	.0036	-.0246	.0081
11172	.300	6034.5	37.61	.27	1.5626	1.1783	-.1628	.0015	.0035	-.0270	.0090
11173	.301	6059.4	39.78	.32	1.5623	1.2705	-.1527	.0011	.0044	-.0265	.0102
11174	.299	6015.0	41.81	.35	1.5317	1.3745	-.1296	.0010	.0032	-.0304	.0123
11175	.300	6040.8	-.44	-.01	-.0150	.0174	.0040	-.0002	-.0016	.0021	.0057

TEST TP	24 MACH	Q	RUN ALPHA	26 BETA	CM	CA	CM	CRM	CYM	CY
NUM	NUMS	PA	DEG	DEG						
11150	.300	6048.5	-.42	-.02	-.0084	.0171	.0050	-.0002	-.0021	.0185
11151	.300	6028.1	-3.94	-.05	-.1807	.0158	.0616	-.0002	-.0019	.0190
11152	.300	6054.3	-1.98	-.04	-.0739	.0175	.0264	-.0002	-.0017	.0153
11153	.301	6075.7	-.62	-.02	-.0003	.0191	.0014	.0000	-.0016	.0143
11154	.300	6046.1	1.89	.02	.1156	.0179	-.0378	-.0003	-.0015	.0109
11155	.301	6067.8	3.98	.04	.2319	.0154	-.0760	.0002	-.0013	.0097
11156	.300	6044.0	6.06	.06	.3548	.0136	-.1150	-.0008	-.0009	.0082
11157	.300	6038.1	8.03	.08	.4738	.0121	-.1456	.0004	-.0006	.0066
11158	.300	6044.1	9.88	.09	.5567	.0103	-.1570	-.0001	-.0002	.0049
11159	.300	6039.9	11.83	.08	.6953	.0116	-.1785	.0000	-.0004	.0030
11160	.300	6046.0	13.86	.08	.8547	.0133	-.2282	-.0011	.0003	.0009
11161	.300	6045.8	15.83	.13	.9905	.0107	-.2657	-.0022	.0006	-.0031
11162	.299	6000.2	17.86	.10	1.1674	.0099	-.3078	-.0031	.0008	-.0044
11163	.300	6029.6	19.78	.12	1.2833	.0068	-.3310	-.0036	.0012	-.0070
11164	.299	6007.3	21.94	.13	1.4696	.0056	-.3656	-.0027	.0021	-.0100
11165	.300	6055.6	23.78	.21	1.5706	.0023	-.3790	-.0028	.0033	-.0151
11166	.300	6019.1	25.81	.25	1.7346	.0000	-.3947	-.0018	.0034	-.0171
11167	.300	6024.2	27.83	.21	1.6636	-.0070	-.2644	-.0004	.0029	-.0151
11168	.300	6049.4	29.86	.15	1.6994	-.0073	-.2163	-.0013	.0033	-.0150
11169	.301	6067.8	31.67	.14	1.7467	-.0107	-.1976	-.0006	.0034	-.0168
11170	.299	6018.8	33.60	.21	1.8265	-.0128	-.1852	-.0004	.0034	-.0208
11171	.300	6040.6	35.59	.25	1.8934	-.0167	-.1710	-.0007	.0039	-.0246
11172	.300	6034.5	37.61	.27	1.9569	-.0203	-.1628	-.0010	.0037	-.0270
11173	.301	6059.4	39.78	.32	2.0136	-.0233	-.1527	-.0020	.0041	-.0265
11174	.299	6015.0	41.81	.35	2.0314	-.0263	-.1296	-.0014	.0031	-.0304
11175	.300	6040.8	-.44	-.01	-.0151	.0172	.0040	-.0002	-.0016	.0021

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## 7 K 10 HIGH SPEED TUNNEL

TEST 24	TP	MACH	Q	RUN 26	ALPHA2	BETA2	CL2	CD2	CM2	CRM2	CYM2	CY2	CD2
NUM	NUM	PA	DEG	DEG	DEG	DEG							
11150	.300	6048.5	-4.42	-.03	-.0030	.0065	-.0041	.0001	.0005	.0012	.0002	.0002	.0002
11151	.300	6028.1	-3.94	-.10	-.0344	.0085	-.0344	.0001	.0005	.0012	.0002	.0002	.0002
11152	.300	6054.3	-1.98	-.06	-.0129	.0067	-.0142	.0001	.0003	.0006	.0003	.0003	.0003
11153	.301	6075.7	-.62	-.03	-.0010	.0068	-.0020	.0001	.0000	.0003	.0001	.0001	.0001
11154	.300	6046.1	1.89	.04	.0183	.0072	.0181	.0001	-.0002	-.0001	.0001	.0001	.0001
11155	.301	6067.8	3.98	.09	.0411	.0092	.0393	.0001	-.0000	.0002	.0002	.0002	.0002
11156	.300	6044.0	6.06	.14	.0663	.0129	.0624	.0001	-.0001	.0003	.0003	.0003	.0003
11157	.300	6038.1	8.03	.18	.0929	.0187	.0867	.0001	-.0000	.0004	.0004	.0004	.0004
11158	.300	6044.1	9.87	.18	.1142	.0244	.1063	.0001	-.0002	.0008	.0008	.0008	.0008
11159	.300	6039.9	11.83	.23	.1475	.0351	.1369	.0001	-.0000	.0003	.0003	.0003	.0003
11160	.300	6046.0	13.86	.26	.1792	.0477	.1664	.0001	-.0000	.0004	.0004	.0004	.0004
11161	.300	6045.8	15.83	.33	.2065	.0609	.1920	.0000	-.0003	.0002	.0002	.0002	.0002
11162	.299	6000.2	17.86	.33	.2455	.0811	.2289	.0001	-.0001	.0001	.0001	.0001	.0001
11163	.300	6029.6	19.78	.37	.2722	.0980	.2554	-.0000	-.0003	-.0003	.0003	.0003	.0003
11164	.299	6007.3	21.93	.41	.3151	.1262	.2978	.0000	-.0002	-.0002	.0002	.0002	.0002
11165	.300	6055.6	23.78	.51	.3381	.1469	.3226	-.0002	-.0007	-.0011	.0007	.0007	.0007
11166	.300	6019.1	25.80	.57	.3773	.1793	.3640	-.0003	-.0007	-.0013	.0007	.0007	.0007
11167	.300	6024.2	27.82	.56	.3973	.2051	.3906	-.0003	-.0006	-.0013	.0007	.0007	.0007
11168	.300	6049.4	29.66	.51	.4247	.2363	.4264	-.0003	-.0005	-.0014	.0007	.0007	.0007
11169	.301	6067.8	31.67	.53	.4406	.2644	.4517	-.0004	-.0010	-.0026	.0007	.0007	.0007
11170	.299	6018.6	33.59	.62	.4621	.2979	.4868	-.0011	-.0021	-.0050	.0007	.0007	.0007
11171	.300	6040.6	35.58	.68	.4747	.3275	.5157	-.0014	-.0025	-.0058	.0007	.0007	.0007
11172	.300	6034.5	37.61	.72	.4826	.3571	.5403	-.0021	-.0031	-.0075	.0007	.0007	.0007
11173	.301	6059.4	39.78	.80	.4903	.3907	.5686	-.0023	-.0030	-.0076	.0007	.0007	.0007
11174	.299	6015.0	41.80	.85	.4932	.4196	.5910	-.0034	-.0038	-.0096	.0007	.0007	.0007
11175	.300	6040.6	-.44	-.01	-.0018	.0057	-.0026	.0001	.0000	-.0002	.0001	.0001	.0001

TEST 24	TP	MACH	Q	RUN 26	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2
NUM	NUM	PA	DEG	DEG	DEG	DEG							
11150	.300	6048.5	-4.42	-.03	-.0030	.0065	-.0041	.0001	.0005	.0012	.0001	.0001	.0001
11151	.300	6028.1	-3.94	-.10	-.0344	.0062	-.0344	.0001	.0005	.0012	.0002	.0002	.0002
11152	.300	6054.3	-1.98	-.06	-.0131	.0063	-.0142	.0001	.0003	.0006	.0003	.0003	.0003
11153	.301	6075.7	-.62	-.03	-.0011	.0068	-.0020	.0001	.0000	.0003	.0001	.0001	.0001
11154	.300	6046.1	1.89	.04	.0185	.0066	.0181	.0001	-.0002	-.0001	.0001	.0001	.0001
11155	.301	6067.8	3.98	.09	.0416	.0063	.0393	.0001	-.0000	.0002	.0002	.0002	.0002
11156	.300	6044.0	6.06	.14	.0672	.0059	.0624	.0001	-.0001	.0003	.0003	.0003	.0003
11157	.300	6038.1	8.03	.18	.0946	.0055	.0867	.0001	-.0000	.0004	.0004	.0004	.0004
11158	.300	6044.1	9.87	.18	.1167	.0044	.1063	.0001	-.0002	.0006	.0006	.0006	.0006
11159	.300	6039.9	11.83	.23	.1515	.0041	.1369	.0001	-.0000	.0003	.0003	.0003	.0003
11160	.300	6046.0	13.86	.26	.1854	.0034	.1664	.0001	-.0000	.0004	.0004	.0004	.0004
11161	.300	6045.8	15.83	.33	.2153	.0023	.1920	.0001	-.0003	.0002	.0002	.0002	.0002
11162	.299	6000.2	17.86	.33	.2585	.0019	.2289	.0001	-.0001	.0001	.0001	.0001	.0001
11163	.300	6029.6	19.78	.37	.2893	.0001	.2554	.0001	-.0003	-.0003	.0003	.0003	.0003
11164	.299	6007.3	21.93	.41	.3395	-.0006	.2978	.0001	-.0002	-.0002	.0002	.0002	.0002
11165	.300	6055.6	23.78	.51	.3686	-.0019	.3226	.0001	-.0007	-.0011	.0007	.0007	.0007
11166	.300	6019.1	25.80	.57	.4177	-.0028	.3540	.0001	-.0007	-.0013	.0007	.0007	.0007
11167	.300	6024.2	27.82	.56	.4471	-.0041	.3906	-.0000	-.0007	-.0013	.0007	.0007	.0007
11168	.300	6049.4	29.66	.51	.4860	-.0048	.4264	-.0000	-.0006	-.0014	.0007	.0007	.0007
11169	.301	6067.8	31.67	.53	.5138	-.0063	.4517	.0002	-.0011	-.0026	.0007	.0007	.0007
11170	.299	6018.6	33.59	.62	.5497	-.0076	.4868	.0003	-.0023	-.0050	.0007	.0007	.0007
11171	.300	6040.6	35.58	.68	.5766	-.0099	.5157	.0003	-.0029	-.0058	.0007	.0007	.0007
11172	.300	6034.5	37.61	.72	.6002	-.0116	.5403	.0003	-.0037	-.0075	.0007	.0007	.0007
11173	.301	6059.4	39.78	.80	.6268	-.0134	.5686	.0001	-.0039	-.0076	.0007	.0007	.0007
11174	.299	6015.0	41.80	.85	.6474	-.0159	.5910	.0000	-.0051	-.0096	.0007	.0007	.0007
11175	.300	6040.6	-.44	-.01	-.0018	.0057	-.0026	.0001	.0000	-.0002	.0000	.0000	.0000

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TEST TP	24	RACH NUMB	Q PA	RUN ALPHA DEG	27	BETA DEG	CL	CD	CMX	CRMS	CVMS	CYS	CDC
11176	.301	6073.8	.64	4.94	.0299	.0158	-.0108	-.0101	.0250	-.0752	.0076		
11177	.300	6055.3	-3.20	4.85	-.1529	.0225	.0469	-.0050	.0169	-.0594	.0066		
11178	.301	6065.8	-1.94	5.01	-.0912	.0183	.0275	-.0056	.0190	-.0591	.0068		
11179	.300	6056.7	.45	4.97	.0172	.0155	-.0073	-.0099	.0253	-.0767	.0075		
11180	.300	6046.1	2.05	4.85	.0983	.0185	-.0353	-.0113	.0243	-.0734	.0075		
11181	.301	6068.7	4.09	5.00	.2163	.0260	-.0746	-.0126	.0243	-.0759	.0077		
11182	.301	6065.4	5.86	5.00	.3258	.0446	-.1107	-.0125	.0243	-.0770	.0078		
11183	.300	6040.4	7.96	4.80	.4511	.0729	-.1431	-.0148	.0229	-.0726	.0076		
11184	.300	6041.9	10.02	4.95	.5581	.1064	-.1644	-.0172	.0242	-.0733	.0075		
11185	.300	6022.5	11.97	4.94	.6861	.1540	-.1937	-.0139	.0275	-.0787	.0075		
11186	.300	6049.0	14.00	4.99	.8199	.2133	-.2262	-.0134	.0332	-.0821	.0075		
11187	.300	6038.3	15.98	4.94	.9757	.2674	-.2720	-.0177	.0312	-.0814	.0079		
11188	.300	6042.0	17.86	5.06	1.0681	.3492	-.2942	-.0225	.0378	-.0859	.0078		
11189	.300	6020.9	19.93	5.14	1.1900	.4344	-.3186	-.0249	.0436	-.0865	.0078		
11190	.300	6026.1	21.95	5.16	1.3003	.5243	-.3319	-.0254	.0476	-.0851	.0084		
11191	.300	6034.3	23.87	5.07	1.2802	.5638	-.2492	-.0100	.0146	-.0518	.0084		
11192	.301	6071.6	25.84	4.78	1.3132	.6309	-.2340	-.0118	.0045	-.0295	.0084		
11193	.301	6063.7	27.87	4.99	1.3963	.7291	-.2312	-.0123	.0045	-.0295	.0087		
11194	.300	6040.6	29.58	4.93	1.4131	.7928	-.2205	-.0161	.0253	-.0667	.0102		
11195	.300	6057.1	31.56	4.90	1.4642	.8863	-.2223	-.0172	.0438	-.0138	.0118		
11196	.300	6042.6	33.63	5.09	1.4775	.9653	-.2003	-.0223	.0651	-.0167	.0139		
11197	.300	6036.7	35.62	5.05	1.4637	1.0282	-.1499	-.0364	.0553	-.0118	.0146		
11198	.301	6083.4	37.57	5.09	1.4662	1.1023	-.1360	-.0391	.0556	-.0049	.0155		
11199	.299	6019.3	39.56	5.09	1.4717	1.1863	-.1223	-.0412	.0549	-.0140	.0170		
11200	.300	6033.8	.55	4.83	.0257	.0183	-.0079	-.0097	.0244	-.0755	.0074		
TEST TP	24	RACH NUMB	Q PA	RUN ALPHA DEG	27	BETA DEG	CN	CA	CM	CRM	CVN	CY	
11176	.301	6073.8	.64	4.94	.0301	.0155	-.0108	-.0104	.0249	-.0752			
11177	.300	6055.3	-3.20	4.85	-.1539	.0139	.0469	-.0040	.0192	-.0594			
11178	.301	6065.8	-1.94	5.01	-.0917	.0152	.0275	-.0050	.0192	-.0591			
11179	.300	6056.7	.45	4.97	.0174	.0153	-.0073	-.0101	.0252	-.0767			
11180	.300	6046.1	2.05	4.85	.0989	.0150	-.0353	-.0122	.0239	-.0734			
11181	.301	6068.7	4.09	5.00	.2178	.0125	-.0746	-.0143	.0233	-.0759			
11182	.301	6065.4	5.86	5.00	.3286	.0111	-.1107	-.0149	.0229	-.0770			
11183	.300	6040.4	7.96	4.80	.4568	.0098	-.1431	-.0179	.0206	-.0726			
11184	.300	6041.9	10.02	4.96	.5681	.0076	-.1444	-.0211	.0209	-.0733			
11185	.300	6022.5	11.97	4.94	.7031	.0083	-.1937	-.0193	.0240	-.0787			
11186	.300	6049.0	14.00	4.99	.8472	.0086	-.2262	-.0211	.0290	-.0821			
11187	.300	6038.3	15.98	4.94	1.0171	.0077	-.2720	-.0256	.0251	-.0814			
11188	.300	6042.0	17.86	5.06	1.1238	.0049	-.2942	-.0330	.0291	-.0823			
11189	.300	6028.9	19.93	5.14	1.2668	.0027	-.3186	-.0383	.0325	-.0859			
11190	.300	6026.1	21.95	5.16	1.4020	.0003	-.3319	-.0414	.0347	-.0865			
11191	.300	6034.3	23.87	5.01	1.3989	-.0025	-.2492	-.0151	.0093	-.0518			
11192	.301	6071.6	25.84	5.07	1.4569	-.0045	-.2140	-.0126	-.0011	-.0295			
11193	.301	6063.7	27.87	4.78	1.5699	-.0054	-.2212	-.0049	.0169	-.0064			
11194	.300	6040.6	29.58	4.99	1.6203	-.0080	-.2703	-.0035	.0300	.0067			
11195	.300	6057.1	31.56	4.93	1.7115	-.0111	-.2723	.0083	-.0463	.0138			
11196	.300	6042.6	33.63	4.90	1.7648	-.0144	-.2703	.0175	-.0665	.0167			
11197	.300	6036.7	35.62	5.09	1.7887	-.0166	-.1499	.0026	-.0661	.0118			
11198	.301	6083.4	37.57	5.05	1.8342	-.0204	-.1360	.0030	-.0679	.0049			
11199	.299	6019.3	39.56	5.09	1.8902	-.0226	-.1223	.0032	-.0685	-.0140			
11200	.300	6033.8	.55	4.83	.0259	.0181	-.0079	-.0100	.0243	-.0755			

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24			RUN 27									
TP	MACH	Q	ALPHA2	BETA2	CL2	CD2	CM2	CRM2	CYM2	CY2	CD2	
NUM	NUMB	PA	DEG	DEG								
11176	.301	6073.8	.58	4.95	.0041	.0058	.0040	-.0001	-.0134	-.0159	.0011	
11177	.300	6055.3	-3.26	4.80	-.0271	.0070	-.0275	.0010	-.0111	-.0135	.0010	
11178	.301	6065.8	-2.00	4.98	-.0144	.0063	-.0156	.0006	-.0110	-.0131	.0009	
11179	.300	6056.7	.38	4.98	.0024	.0059	.0020	-.0000	-.0134	-.0159	.0010	
11180	.300	6046.1	1.98	4.87	.0156	.0062	.0153	-.0005	-.0130	-.0158	.0011	
11181	.301	6068.7	4.02	5.05	.0391	.0081	.0369	-.0014	-.0134	-.0168	.0013	
11182	.301	6065.4	5.79	5.08	.0616	.0114	.0573	-.0020	-.0139	-.0174	.0014	
11183	.300	6040.4	7.90	4.90	.0503	.0174	.0836	-.0026	-.0127	-.0167	.0016	
11184	.300	6041.9	9.96	5.09	.1164	.0245	.1074	-.0033	-.0123	-.0164	.0019	
11185	.300	6022.5	11.91	5.09	.1459	.0347	.1344	-.0040	-.0124	-.0168	.0024	
11186	.300	6049.0	13.94	5.17	.1779	.0476	.1642	-.0049	-.0119	-.0158	.0031	
11187	.300	6038.3	15.92	5.15	.2139	.0637	.1974	-.0056	-.0120	-.0174	.0038	
11188	.300	6042.0	17.79	5.29	.2380	.0779	.2206	-.0065	-.0116	-.0170	.0043	
11189	.300	6028.9	19.87	5.39	.2722	.0986	.2538	-.0075	-.0114	-.0173	.0052	
11190	.300	6026.1	21.88	5.43	.3067	.1225	.2883	-.0085	-.0114	-.0181	.0061	
11191	.300	6034.3	23.81	5.31	.3373	.1473	.3214	-.0091	-.0113	-.0191	.0066	
11192	.301	6071.6	25.77	5.39	.3601	.1706	.3480	-.0099	-.0112	-.0197	.0071	
11193	.301	6063.7	27.81	5.13	.3928	.2024	.3868	-.0101	-.0110	-.0204	.0080	
11194	.300	6040.6	29.52	5.35	.4079	.2243	.4090	-.0109	-.0116	-.0223	.0083	
11195	.300	6057.1	31.50	5.32	.4226	.2501	.4370	-.0113	-.0141	-.0289	.0089	
11196	.300	6042.6	33.57	5.31	.4356	.2783	.4637	-.0127	-.0176	-.0380	.0094	
11197	.300	6036.7	35.56	5.33	.4570	.3134	.4984	-.0154	-.0208	-.0462	.0097	
11198	.301	6083.4	37.52	5.50	.4652	.3409	.5215	-.0171	-.0222	-.0504	.0094	
11199	.299	6019.3	39.50	5.57	.4744	.3718	.5492	-.0198	-.0247	-.0563	.0098	
11200	.300	6033.8	.49	4.84	.0038	.0060	.0037	-.0000	-.0131	-.0157	.0010	

TEST 24			RUN 27									
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2	
NUM	NUMB	PA	DEG	DEG								
11176	.301	6073.8	.58	4.95	.0042	.0057	.0040	.0001	-.0134	-.0159	.0003	
11177	.300	6055.3	-3.26	4.80	-.0274	.0054	-.0275	.0004	-.0111	-.0135	.0003	
11178	.301	6065.8	-2.00	4.98	-.0147	.0058	-.0156	.0002	-.0110	-.0131	.0002	
11179	.300	6056.7	.38	4.98	.0024	.0059	.0020	.0001	-.0134	-.0159	.0003	
11180	.300	6046.1	1.98	4.87	.0158	.0057	.0153	-.0000	-.0130	-.0158	.0003	
11181	.301	6068.7	4.02	5.05	.0396	.0053	.0369	-.0004	-.0135	-.0168	.0003	
11182	.301	6065.4	5.79	5.08	.0624	.0051	.0573	-.0006	-.0137	-.0174	.0004	
11183	.300	6040.4	7.90	4.90	.0918	.0049	.0836	-.0008	-.0130	-.0167	.0004	
11184	.300	6041.9	9.96	5.09	.1188	.0040	.1074	-.0011	-.0127	-.0164	.0005	
11185	.300	6022.5	11.91	5.09	.1499	.0038	.1344	-.0014	-.0129	-.0168	.0006	
11186	.300	6049.0	13.94	5.17	.1841	.0033	.1642	-.0019	-.0127	-.0158	.0008	
11187	.300	6038.3	15.92	5.15	.2231	.0026	.1974	-.0021	-.0131	-.0174	.0010	
11188	.300	6042.0	17.79	5.29	.2504	.0015	.2206	-.0026	-.0131	-.0170	.0011	
11189	.300	6028.9	19.87	5.39	.2895	.0003	.2538	-.0031	-.0133	-.0173	.0013	
11190	.300	6026.1	21.88	5.43	.3303	-.0006	.2883	-.0036	-.0137	-.0181	.0016	
11191	.300	6034.3	23.81	5.31	.3680	-.0014	.3214	-.0038	-.0140	-.0191	.0017	
11192	.301	6071.6	25.77	5.39	.3985	-.0030	.3480	-.0041	-.0144	-.0197	.0018	
11193	.301	6063.7	27.81	5.13	.4419	-.0042	.3868	-.0038	-.0144	-.0204	.0020	
11194	.300	6040.6	29.52	5.35	.4654	-.0058	.4090	-.0037	-.0154	-.0223	.0021	
11195	.300	6057.1	31.50	5.32	.4910	-.0076	.4370	-.0023	-.0179	-.0289	.0022	
11196	.300	6042.6	33.57	5.31	.5168	-.0090	.4637	-.0008	-.0217	-.0380	.0024	
11197	.300	6036.7	35.56	5.33	.5540	-.0108	.4984	-.0004	-.0259	-.0462	.0025	
11198	.301	6083.4	37.52	5.50	.5766	-.0130	.5215	-.0001	-.0280	-.0504	.0024	
11199	.299	6019.3	39.50	5.57	.6026	-.0149	.5492	.0004	-.0316	-.0563	.0024	
11200	.300	6033.8	.49	4.84	.0039	.0060	.0037	.0001	-.0131	-.0157	.0002	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	28 BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
11201	.300	6056.6	.33	-4.99	-.0079	.0168	-.0023	.0084	-.0281	.0714	.0074
11202	.300	6053.0	-3.63	-4.40	-.1605	.0251	.0542	.0040	-.0209	.0602	.0066
11203	.300	6044.8	-1.89	-5.09	-.0778	.0189	.0271	.0053	-.0239	.0627	.0068
11204	.301	6073.0	.24	-4.90	-.0134	.0166	-.0011	.0083	-.0279	.0705	.0074
11205	.301	6060.6	1.83	-4.66	.0651	.0178	-.0269	.0093	-.0260	.0657	.0072
11206	.300	6052.1	3.99	-5.02	.1828	.0261	-.0644	.0113	-.0271	.0706	.0077
11207	.300	6048.2	6.10	-4.98	.3058	.0441	-.1041	.0110	-.0259	.0691	.0077
11208	.300	6050.8	7.84	-5.00	.4220	.0695	-.1340	.0135	-.0274	.0701	.0077
11209	.300	6048.3	9.85	-5.11	.5375	.1033	-.1586	.0180	-.0297	.0684	.0082
11210	.300	6029.4	11.74	-5.10	.6462	.1429	-.1863	.0154	-.0318	.0692	.0082
11211	.301	6064.7	14.04	-4.87	.7860	.2047	-.2126	.0104	-.0328	.0690	.0080
11212	.300	6030.9	15.82	-4.98	.9350	.2746	-.2539	.0139	-.0308	.0676	.0083
11213	.300	6039.0	18.02	-4.80	1.0681	.3544	-.2858	.0175	-.0326	.0588	.0082
11214	.300	6039.4	19.90	-4.86	1.1760	.4297	-.3102	.0211	-.0355	.0540	.0082
11215	.300	6046.5	21.84	-4.79	1.3173	.5310	-.3401	.0251	-.0368	.0472	.0079
11216	.303	6037.7	23.80	-4.92	1.2786	.5610	-.2619	.0094	-.0126	.0250	.0089
11217	.300	6039.1	25.74	-5.02	1.3374	.6415	-.2415	.0100	.0002	.0007	.0086
11218	.299	6009.8	27.89	-5.00	1.3813	.7248	-.2343	.0121	.0168	-.0233	.0090
11219	.300	6024.9	29.87	-5.10	1.4374	.8171	-.2260	.0160	.0371	-.0404	.0108
11220	.301	6071.8	31.66	-4.80	1.4440	.8769	-.2164	.0200	.0546	-.0567	.0130
11221	.300	6046.5	33.55	-4.74	1.4578	.9496	-.1941	.0233	.0717	-.0605	.0145
11222	.300	6026.6	35.70	-4.96	1.4323	1.0087	-.1354	.0358	.0625	-.0556	.0156
11223	.300	6039.1	37.63	-5.09	1.4165	1.0668	-.1176	.0396	.0613	-.0421	.0167
11224	.301	6070.9	39.68	-4.88	1.4342	1.1600	-.1057	.0409	.0565	-.0281	.0170
11225	.299	6002.3	.31	-4.93	-.0041	.0176	-.0031	.0085	-.0273	.0678	.0074

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	28 BETA DEG	CN	CA	CN	CRN	CYN	CY
11201	.300	6056.6	.33	-4.99	-.0078	.0168	-.0023	.0086	-.0280	.0714
11202	.300	6053.0	-3.63	-4.40	-.1617	.0149	.0542	.0027	-.0211	.0602
11203	.300	6044.8	-1.89	-5.09	-.0784	.0163	.0171	.0045	-.0240	.0627
11204	.301	6073.0	.24	-4.90	-.0133	.0167	-.0011	.0084	-.0279	.0705
11205	.301	6060.6	1.83	-4.66	.0656	.0157	-.0069	.0101	-.0257	.0657
11206	.300	6052.1	3.99	-5.02	.1841	.0133	-.0644	.0132	-.0282	.0706
11207	.300	6048.2	6.10	-4.98	.3087	.0114	-.1041	.0136	-.0246	.0691
11208	.300	6050.8	7.84	-5.00	.4275	.0113	-.1140	.0171	-.0253	.0701
11209	.300	6048.3	9.85	-5.11	.5473	.0098	-.1186	.0228	-.0262	.0684
11210	.300	6029.4	11.74	-5.10	.6618	.0085	-.1163	.0216	-.0280	.0692
11211	.301	6064.7	14.04	-4.87	.8122	.0079	-.2126	.0181	-.0293	.0690
11212	.300	6030.9	15.82	-4.98	.9744	.0094	-.2139	.0217	-.0259	.0676
11213	.300	6039.0	18.02	-4.80	1.1253	.0066	-.2158	.0267	-.0256	.0588
11214	.300	6039.4	19.90	-4.86	1.2520	.0038	-.3102	.0319	-.0262	.0340
11215	.300	6046.5	21.84	-4.79	1.4203	.0027	-.3101	.0370	-.0248	.0472
11216	.300	6037.7	23.80	-4.92	1.3962	-.0027	-.2319	.0136	-.0078	.0250
11217	.300	6039.1	25.74	-5.02	1.4833	-.0030	-.2115	.0089	.0045	.0007
11218	.299	6009.8	27.89	-5.00	1.5599	-.0054	-.2143	.0028	.0205	-.0233
11219	.300	6024.9	29.87	-5.10	1.6334	-.0073	-.2260	-.0046	.0402	-.0404
11220	.301	6071.8	31.66	-4.80	1.6893	-.0114	-.2184	-.0116	.0570	-.0567
11221	.300	6046.5	33.55	-4.74	1.7397	-.0144	-.1441	-.0202	.0726	-.0605
11222	.300	6026.6	35.70	-4.96	1.7518	-.0168	-.1154	-.0074	.0716	-.0556
11223	.300	6039.1	37.63	-5.09	1.7732	-.0199	-.1176	-.0061	.0727	-.0421
11224	.301	6070.9	39.68	-4.88	1.8445	-.0231	-.1057	-.0046	.0696	-.0281
11225	.299	6002.3	.31	-4.93	-.0040	.0176	-.0031	.0086	-.0272	.0678

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUM	Q PA	RUN ALPHA2 DEG	28 BETA2 DEG	CL2	CD2	CM52	CRM52	CYM52	CY52	CDB2
11201	.300	6056.8	.39	-4.98	-.0015	.0059	-.0021	.0002	.0128	.0149	.0010
11202	.300	6053.0	-3.57	-4.45	-.0277	.0072	-.0277	-.0008	.0107	.0130	.0010
11203	.300	6044.8	-1.83	-5.11	-.0125	.0059	-.0131	-.0004	.0112	.0132	.0010
11204	.301	6073.0	.30	-4.90	-.0027	.0061	-.0035	.0002	.0129	.0151	.0010
11205	.301	6060.6	1.89	-4.63	.0105	.0063	.0106	.0006	.0119	.0139	.0007
11206	.300	6052.1	4.06	-4.97	.0339	.0080	.0327	.0015	.0129	.0155	.0010
11207	.300	6048.2	6.16	-4.90	.0592	.0115	.0559	.0022	.0127	.0159	.0012
11208	.300	6050.8	7.90	-4.90	.0848	.0167	.0793	.0029	.0130	.0166	.0018
11209	.300	6048.3	9.92	-4.98	.1125	.0240	.1048	.0036	.0123	.0156	.0022
11210	.300	6029.4	11.80	-4.95	.1380	.0323	.1280	.0042	.0120	.0155	.0026
11211	.301	6064.7	14.10	-4.69	.1727	.0464	.1599	.0049	.0112	.0150	.0030
11212	.300	6030.9	15.88	-4.78	.2078	.0621	.1921	.0059	.0119	.0172	.0036
11213	.300	6039.0	18.08	-4.57	.2415	.0806	.2245	.0063	.0104	.0152	.0044
11214	.300	6039.4	19.95	-4.60	.2703	.0988	.2528	.0069	.0100	.0149	.0050
11215	.300	6046.5	21.90	-4.51	.3086	.1241	.2910	.0076	.0098	.0154	.0061
11216	.300	6037.7	23.86	-4.62	.3300	.1444	.3196	.0082	.0097	.0161	.0065
11217	.300	6039.1	25.80	-4.69	.3638	.1732	.3530	.0090	.0100	.0174	.0073
11218	.299	6009.8	27.94	-4.65	.3881	.2009	.3835	.0096	.0101	.0187	.0079
11219	.300	6024.9	29.93	-4.72	.4133	.2309	.4188	.0100	.0110	.0212	.0084
11220	.301	6071.8	31.71	-4.41	.4182	.2493	.4356	.0102	.0122	.0246	.0086
11221	.300	6046.5	33.60	-4.33	.4317	.2755	.4619	.0105	.0137	.0289	.0098
11222	.300	6026.6	35.76	-4.53	.4506	.3104	.4964	.0119	.0157	.0337	.0104
11223	.300	6039.1	37.68	-4.63	.4564	.3354	.5177	.0137	.0180	.0397	.0100
11224	.301	6070.9	39.73	-4.40	.4691	.3701	.5500	.0146	.0186	.0420	.0089
11225	.299	6002.3	.37	-4.93	-.0006	.0059	-.0013	.0002	.0126	.0146	.0011
TEST TP	24 MACH NUM	Q PA	RUN ALPHA2 DEG	28 BETA2 DEG	CL2	CD2	CM2	CRM2	CYM2	CY2	CDC2
11201	.300	6056.8	.39	-4.98	-.0014	.0059	-.0021	.0001	.0128	.0149	.0003
11202	.300	6053.0	-3.57	-4.45	-.0281	.0054	-.0277	-.0002	.0107	.0130	.0003
11203	.300	6044.8	-1.83	-5.11	-.0127	.0055	-.0131	-.0000	.0113	.0132	.0003
11204	.301	6073.0	.30	-4.90	-.0027	.0061	-.0035	.0001	.0129	.0151	.0003
11205	.301	6060.6	1.89	-4.63	.0107	.0059	.0106	.0002	.0119	.0139	.0002
11206	.300	6052.1	4.06	-4.97	.0344	.0055	.0327	.0006	.0120	.0155	.0003
11207	.300	6048.2	6.16	-4.90	.0601	.0051	.0559	.0008	.0129	.0159	.0003
11208	.300	6050.8	7.90	-4.90	.0863	.0049	.0793	.0011	.0133	.0166	.0005
11209	.300	6048.3	9.92	-4.98	.1150	.0043	.1048	.0014	.0128	.0156	.0006
11210	.300	6029.4	11.80	-4.95	.1417	.0034	.1280	.0017	.0126	.0155	.0007
11211	.301	6064.7	14.10	-4.69	.1788	.0029	.1599	.0020	.0120	.0150	.0008
11212	.300	6030.9	15.88	-4.78	.2169	.0029	.1921	.0024	.0130	.0172	.0009
11213	.300	6039.0	18.08	-4.57	.2546	.0017	.2245	.0027	.0118	.0152	.0011
11214	.300	6039.4	19.95	-5.60	.2878	.0006	.2528	.0031	.0118	.0149	.0013
11215	.300	6046.5	21.90	-4.51	.3328	.0000	.2910	.0034	.0119	.0154	.0015
11216	.300	6037.7	23.86	-4.62	.3602	-.0014	.3156	.0036	.0122	.0161	.0016
11217	.300	6039.1	25.80	-4.69	.4029	-.0024	.3530	.0038	.0129	.0174	.0018
11218	.299	6009.8	27.94	-4.65	.4370	-.0043	.3835	.0037	.0134	.0187	.0019
11219	.300	6024.9	29.93	-4.72	.4734	-.0060	.4188	.0032	.0143	.0212	.0021
11220	.301	6071.8	31.71	-4.41	.4868	-.0077	.4356	.0023	.0157	.0246	.0021
11221	.300	6046.5	33.60	-4.33	.5121	-.0094	.4619	.0011	.0172	.0289	.0024
11222	.300	6026.6	35.76	-4.53	.5471	-.0114	.4964	.0005	.0197	.0337	.0026
11223	.300	6039.1	37.68	-4.63	.5664	-.0137	.5177	-.0001	.0226	.0397	.0025
11224	.301	6070.9	39.73	-4.40	.5973	-.0152	.5500	-.0007	.0236	.0420	.0022
11225	.299	6002.3	.37	-4.93	-.0006	.0059	-.0013	.0001	.0126	.0146	.0003



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMS	Q PA	RUN 30 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
11263	.300	6038.0	.44	4.83	.0217	.0161	-.0081	-.0011	-.0108	-.0236	.0077
11264	.300	6035.5	-3.15	4.88	-.1563	.0228	.0463	.0038	-.0088	-.0152	.0067
11265	.300	6047.1	-2.18	5.24	-.1121	.0194	.0310	.0032	-.0094	-.0159	.0070
11266	.300	6059.9	.70	4.86	.0361	.0163	-.0086	-.0016	-.0107	-.0229	.0078
11268	.301	6075.9	1.95	4.83	.0948	.0172	-.0287	-.0036	-.0095	-.0179	.0075
11269	.301	6081.3	3.88	4.89	.1965	.0258	-.0629	-.0058	-.0089	-.0184	.0075
11270	.301	6075.5	5.82	4.80	.3246	.0449	-.1057	-.0080	-.0068	-.0196	.0075
11271	.301	6084.0	7.88	4.94	.4325	.0693	-.1357	-.0114	-.0078	-.0191	.0074
11272	.300	6094.3	9.80	5.12	.5427	.1022	-.1579	-.0159	-.0074	-.0195	.0075
11273	.300	6046.9	12.06	5.07	.6847	.1553	-.1903	-.0148	-.0057	-.0225	.0076
11274	.300	6040.5	13.94	4.86	.8219	.2142	-.2246	-.0130	-.0027	-.0279	.0078
11275	.300	6049.8	15.71	4.94	.9379	.2725	-.2593	-.0165	-.0005	-.0328	.0074
11276	.299	6016.8	18.00	4.87	1.1136	.3694	-.3049	-.0250	.0041	-.0344	.0073
11277	.300	6049.2	19.69	4.83	1.1970	.4341	-.3185	-.0287	.0072	-.0305	.0074
11278	.300	6058.1	21.77	5.10	1.2888	.5166	-.3264	-.0311	.0099	-.0301	.0078
11279	.300	6060.6	23.62	5.14	1.2813	.5590	-.2463	-.0120	-.0095	-.0200	.0086
11280	.301	6066.9	25.91	4.97	1.3499	.6529	-.2361	-.0112	-.0176	-.0031	.0086
11281	.300	6054.9	27.79	4.35	1.3922	.7282	-.2344	-.0101	-.0232	.0083	.0085
11282	.301	6070.5	29.49	4.74	1.4200	.7954	-.2239	-.0136	-.0287	.0115	.0100
11283	.300	6036.3	31.86	4.91	1.4841	.9103	-.2294	-.0122	-.0345	-.0017	.0101
11284	.301	6066.9	33.77	4.99	1.5241	1.0043	-.2044	-.0175	-.0338	-.0120	.0099
11285	.301	6077.7	35.77	3.95	1.5139	1.0719	-.1661	-.0206	-.0182	-.0089	.0097
11286	.300	6056.4	37.91	5.03	1.5083	1.1506	-.1488	-.0288	-.0273	-.0271	.0125
11287	.301	6076.4	39.76	5.07	1.5000	1.2191	-.1388	-.0304	-.0281	-.0386	.0139
11288	.300	6049.3	.65	4.81	.0368	.0193	-.0106	-.0017	-.0103	-.0234	.0077

TEST TP NUM	24 MACH NUMS	Q PA	RUN 30 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
11263	.300	6038.0	.44	4.83	.0218	.0159	-.0081	-.0010	-.0108	-.0236
11264	.300	6035.5	-3.15	4.88	-.1573	.0142	.0463	.0033	-.0090	-.0152
11265	.300	6047.1	-2.18	5.24	-.1128	.0151	.0310	.0028	-.0095	-.0159
11266	.300	6059.9	.70	4.86	.0363	.0158	-.0086	-.0015	-.0107	-.0229
11268	.301	6075.9	1.95	4.83	.0954	.0140	-.0287	-.0033	-.0097	-.0179
11269	.301	6081.3	3.88	4.89	.1978	.0125	-.0629	-.0052	-.0092	-.0184
11270	.301	6075.5	5.82	4.80	.3275	.0118	-.1057	-.0071	-.0096	-.0196
11271	.301	6084.0	7.88	4.94	.4379	.0093	-.1357	-.0102	-.0093	-.0191
11272	.300	6094.3	9.80	5.12	.5521	.0083	-.1579	-.0144	-.0100	-.0193
11273	.300	6046.9	12.06	5.07	.7020	.0088	-.1903	-.0133	-.0087	-.0225
11274	.300	6040.5	13.94	4.86	.8493	.0098	-.2246	-.0120	-.0057	-.0279
11275	.300	6049.8	15.71	4.94	.9766	.0083	-.2593	-.0157	-.0050	-.0328
11276	.299	6016.8	18.00	4.87	1.1733	.0072	-.3049	-.0250	-.0038	-.0344
11277	.300	6049.2	19.69	4.83	1.2733	.0054	-.3185	-.0294	-.0028	-.0305
11278	.300	6058.1	21.77	5.10	1.3885	.0018	-.3264	-.0326	-.0023	-.0301
11279	.300	6060.6	23.62	5.14	1.3979	-.0013	-.2463	-.0072	-.0135	-.0200
11280	.301	6066.9	25.91	4.97	1.4995	-.0024	-.2561	-.0023	-.0207	-.0031
11281	.300	6054.9	27.79	4.35	1.5711	-.0047	-.2544	.0019	-.0253	.0083
11282	.301	6070.5	29.49	4.74	1.6275	-.0068	-.2639	.0022	-.0317	.0115
11283	.300	6036.3	31.86	4.91	1.7410	-.0103	-.2294	.0078	-.0358	-.0017
11284	.301	6066.9	33.77	4.99	1.8252	-.0125	-.2044	.0042	-.0378	-.0120
11285	.301	6077.7	35.77	3.95	1.8549	-.0152	-.1661	-.0061	-.0268	-.0089
11286	.300	6056.4	37.91	5.03	1.8970	-.0187	-.1488	-.0059	-.0392	-.0271
11287	.301	6076.4	39.76	5.07	1.9328	-.0222	-.1388	-.0054	-.0411	-.0386
11288	.300	6049.3	.65	4.81	.0370	.0189	-.0106	-.0016	-.0103	-.0234

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24				RUN 30								
TP	MACH	Q	ALPHA2	BETA2	CL2	C02	CM52	CRM52	CYM52	CY52	CD52	
NUM	NUMB	PA	DEG	DEG								
11263	.300	6038.0	.38	4.83	.0024	.0059	.0026	-.0000	-.0128	-.0149	.0009	
11264	.300	6035.5	-3.21	4.84	-.0299	.0070	-.0300	.0009	-.0099	-.0115	.0010	
11265	.300	6047.1	-2.25	5.21	-.0210	.0063	-.0221	.0007	-.0106	-.0120	.0010	
11266	.300	6059.9	.64	4.87	.0059	.0060	.0059	-.0001	-.0129	-.0150	.0010	
11268	.301	6075.9	1.69	4.85	.0160	.0058	.0172	-.0004	-.0113	-.0129	.0010	
11269	.301	6081.3	3.81	4.94	.0351	.0073	.0348	-.0011	-.0114	-.0132	.0010	
11270	.301	6075.5	5.76	4.88	.0612	.0115	.0584	-.0018	-.0115	-.0135	.0011	
11271	.301	6064.0	7.82	5.05	.0849	.0161	.0800	-.0024	-.0111	-.0132	.0014	
11272	.300	6054.3	9.74	5.25	.1117	.0231	.1043	-.0031	-.0114	-.0138	.0016	
11273	.300	6046.9	12.00	5.23	.1455	.0345	.1350	-.0039	-.0112	-.0139	.0019	
11274	.300	6040.5	13.88	5.03	.1775	.0474	.1645	-.0046	-.0110	-.0141	.0024	
11275	.300	6049.8	15.65	5.14	.2037	.0592	.1885	-.0052	-.0112	-.0156	.0030	
11276	.299	6016.8	17.94	5.10	.2480	.0820	.2305	-.0062	-.0110	-.0181	.0035	
11277	.300	6049.2	19.63	5.08	.2730	.0982	.2549	-.0070	-.0107	-.0158	.0043	
11278	.300	6058.1	21.70	5.38	.3028	.1200	.2849	-.0082	-.0109	-.0168	.0049	
11279	.300	6060.6	23.56	5.44	.3360	.1451	.3202	-.0088	-.0112	-.0188	.0058	
11280	.301	6066.9	25.84	5.30	.3697	.1763	.3581	-.0093	-.0107	-.0190	.0064	
11281	.300	6054.9	27.73	4.70	.3890	.2000	.3829	-.0089	-.0095	-.0176	.0072	
11282	.301	6070.5	29.44	5.11	.4079	.2237	.4090	-.0103	-.0107	-.0205	.0077	
11283	.300	6036.3	31.80	5.31	.4261	.2552	.4426	-.0111	-.0135	-.0279	.0081	
11284	.301	6066.9	33.72	5.41	.4496	.2894	.4775	-.0125	-.0162	-.0353	.0084	
11285	.301	6077.7	35.73	4.39	.4661	.3223	.5064	-.0109	-.0135	-.0310	.0098	
11286	.300	6056.4	37.85	5.49	.4739	.3517	.5334	-.0173	-.0215	-.0488	.0089	
11287	.301	6076.4	39.71	5.55	.4775	.3765	.5527	-.0194	-.0231	-.0528	.0097	
11288	.300	6049.3	.59	4.81	.0050	.0060	.0055	-.0001	-.0127	-.0149	.0009	

TEST 24				RUN 30								
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2	
NUM	NUMB	PA	DEG	DEG								
11263	.300	6038.0	.38	4.83	.0024	.0059	.0026	.0001	-.0128	-.0149	.0002	
11264	.300	6035.5	-3.21	4.84	-.0302	.0053	-.0300	.0004	-.0100	-.0115	.0002	
11265	.300	6047.1	-2.25	5.21	-.0212	.0054	-.0221	.0003	-.0106	-.0120	.0002	
11266	.300	6059.9	.64	4.87	.0060	.0059	.0059	.0000	-.0129	-.0150	.0002	
11268	.301	6075.9	1.69	4.85	.0161	.0053	.0172	-.0000	-.0113	-.0129	.0002	
11269	.301	6081.3	3.81	4.94	.0355	.0050	.0348	-.0003	-.0115	-.0132	.0003	
11270	.301	6075.5	5.76	4.88	.0620	.0053	.0584	-.0006	-.0116	-.0135	.0003	
11271	.301	6064.0	7.82	5.05	.0863	.0044	.0800	-.0008	-.0114	-.0138	.0004	
11272	.300	6054.3	9.74	5.25	.1141	.0039	.1043	-.0012	-.0116	-.0138	.0004	
11273	.300	6046.9	12.00	5.23	.1494	.0035	.1350	-.0015	-.0118	-.0139	.0005	
11274	.300	6040.5	13.88	5.03	.1837	.0035	.1645	-.0018	-.0117	-.0141	.0006	
11275	.300	6049.8	15.65	5.14	.2121	.0021	.1985	-.0020	-.0122	-.0156	.0007	
11276	.299	6016.8	17.94	5.10	.2612	.0016	.2405	-.0025	-.0124	-.0161	.0009	
11277	.300	6049.2	19.63	5.08	.2901	.0008	.2749	-.0030	-.0124	-.0158	.0011	
11278	.300	6058.1	21.70	5.38	.3257	-.0005	.3049	-.0036	-.0131	-.0168	.0012	
11279	.300	6060.6	23.56	5.44	.3660	-.0012	.3402	-.0036	-.0138	-.0188	.0015	
11280	.301	6066.9	25.84	5.30	.4095	-.0025	.3881	-.0037	-.0136	-.0190	.0016	
11281	.300	6054.9	27.73	4.70	.4374	-.0040	.4129	-.0034	-.0125	-.0176	.0018	
11282	.301	6070.5	29.44	5.11	.4652	-.0056	.4490	-.0037	-.0144	-.0205	.0019	
11283	.300	6036.3	31.80	5.31	.4967	-.0077	.4826	-.0043	-.0173	-.0279	.0020	
11284	.301	6066.9	33.72	5.41	.5346	-.0089	.4775	-.0044	-.0204	-.0353	.0021	
11285	.301	6077.7	35.73	4.39	.5666	-.0105	.5464	-.0049	-.0173	-.0310	.0025	
11286	.300	6056.4	37.85	5.49	.5900	-.0131	.5734	-.0064	-.0276	-.0488	.0023	
11287	.301	6076.4	39.71	5.55	.6080	-.0152	.5927	-.0082	-.0301	-.0528	.0024	
11288	.300	6049.3	.59	4.81	.0050	.0060	.0055	.0000	-.0127	-.0149	.0002	

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7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUMB	Q PA	RUN ALPHA DEG	31 BETA DEG	CL	CD	CM5	CRMS	CYMS	CYS	COC
11289	.300	6057.1	.39	-4.98	.0012	.0169	-.0033	-.0002	.0107	.0171	.0079
11290	.300	6046.3	-2.68	-4.91	-.1100	.0265	.0390	-.0043	.0092	.0182	.0072
11291	.300	6046.6	-2.05	-3.22	-.0829	.0186	.0299	-.0037	.0097	.0174	.0073
11293	.300	6051.9	.38	-4.89	-.0008	.0152	-.0028	-.0002	.0098	.0154	.0077
11294	.300	6048.9	1.97	-3.01	.0805	.0192	-.0295	.0028	.0108	.0170	.0078
11295	.300	6052.9	4.01	-5.02	.1939	.0281	-.0655	.0057	.0112	.0170	.0076
11296	.301	6062.7	6.11	-5.03	.3238	.0472	-.1069	.0073	.0119	.0175	.0076
11297	.300	6057.4	7.59	-5.31	.3941	.0629	-.1246	.0091	.0119	.0150	.0077
11298	.300	6034.4	10.01	-5.08	.5410	.1047	-.1575	.0153	.0112	.0147	.0076
11299	.300	6054.8	11.81	-4.99	.6709	.1508	-.1891	.0135	.0109	.0118	.0077
11300	.301	6083.6	13.79	-4.88	.7913	.2042	-.2113	.0113	.0087	.0145	.0077
11301	.300	6059.1	15.89	-4.95	.9344	.2764	-.2507	.0156	.0072	.0124	.0078
11302	.301	6060.0	17.79	-5.01	1.0655	.3505	-.2801	.0217	.0047	.0085	.0077
11303	.300	6049.6	19.87	-4.96	1.1913	.4365	-.3077	.0267	.0019	.0024	.0078
11304	.299	6008.0	21.86	-4.94	1.2951	.5223	-.3304	.0303	-.0006	-.0030	.0076
11305	.300	6059.0	23.89	-5.03	1.2735	.6223	-.2525	.0151	.0143	-.0124	.0088
11306	.300	6041.6	25.82	-5.03	1.3256	.6395	-.2301	.0150	.0250	-.0320	.0089
11307	.300	6049.3	27.70	-5.01	1.3662	.7127	-.2297	.0157	.0335	-.0434	.0088
11308	.300	6049.7	29.55	-5.04	1.4249	.8035	-.2272	.0155	.0381	-.0406	.0107
11309	.300	6057.9	31.65	-5.02	1.4776	.8992	-.2319	.0159	.0419	-.0359	.0103
11310	.300	6047.2	33.65	-5.13	1.5054	.9869	-.2160	.0155	.0445	-.0209	.0110
11311	.300	6042.0	35.79	-4.97	1.4752	1.0441	-.1534	.0275	.0309	-.0252	.0116
11312	.300	6041.9	37.74	-5.06	1.4722	1.1163	-.1324	.0270	.0301	-.0100	.0134
11313	.301	6063.0	39.65	-4.95	1.4723	1.1934	-.1224	.0275	.0288	.0014	.0140
11314	.301	6065.3	.39	-4.86	.0043	.0172	-.0043	-.0002	.0101	.0134	.0077
TEST TP	24 MACH NUMB	Q PA	RUN ALPHA DEG	31 BETA DEG	CM	CA	CM	CRM	CYM	CY	
11289	.300	6057.1	.39	-4.98	.0013	.0169	-.0033	-.0003	.0107	.0171	
11290	.300	6046.3	-2.68	-4.91	-.1109	.0153	.0390	-.0039	.0094	.0182	
11291	.300	6046.6	-2.05	-3.22	-.0835	.0156	.0299	-.0034	.0098	.0174	
11293	.300	6051.9	.38	-4.89	-.0007	.0152	-.0028	-.0003	.0098	.0154	
11294	.300	6048.9	1.97	-3.01	.0811	.0164	-.0295	.0025	.0109	.0170	
11295	.300	6052.9	4.01	-5.02	.1939	.0145	-.0655	.0049	.0116	.0170	
11296	.301	6062.7	6.11	-5.03	.3270	.0125	-.1069	.0060	.0126	.0175	
11297	.300	6057.4	7.59	-5.31	.3999	.0103	-.1246	.0075	.0130	.0150	
11298	.300	6034.4	10.01	-5.08	.5510	.0091	-.1575	.0131	.0137	.0147	
11299	.300	6054.8	11.81	-4.99	.6876	.0104	-.1891	.0110	.0134	.0118	
11300	.301	6083.6	13.79	-4.88	.8171	.0097	-.2113	.0089	.0112	.0145	
11301	.300	6059.1	15.89	-4.95	.9744	.0100	-.2507	.0130	.0112	.0124	
11302	.301	6060.0	17.79	-5.01	1.1216	.0082	-.2801	.0192	.0111	.0085	
11303	.300	6049.6	19.87	-4.96	1.2467	.0056	-.3077	.0245	.0108	.0024	
11304	.299	6008.0	21.86	-4.94	1.3955	.0024	-.3304	.0284	.0107	-.0030	
11305	.300	6059.0	23.89	-5.03	1.3921	-.0017	-.2525	.0080	.0192	-.0124	
11306	.300	6041.6	25.82	-5.03	1.4718	-.0017	-.2301	.0027	.0290	-.0320	
11307	.300	6049.3	27.70	-5.01	1.5410	-.0040	-.2297	-.0017	.0369	-.0434	
11308	.300	6049.7	29.55	-5.04	1.6393	-.0058	-.2272	-.0054	.0408	-.0406	
11309	.300	6057.9	31.65	-5.02	1.7299	-.0100	-.2319	-.0085	.0440	-.0359	
11310	.300	6047.2	33.65	-5.13	1.8000	-.0126	-.2160	-.0118	.0454	-.0209	
11311	.300	6042.0	35.79	-4.97	1.8072	-.0158	-.1534	.0043	.0412	-.0252	
11312	.300	6041.9	37.74	-5.06	1.8475	-.0181	-.1324	.0029	.0404	-.0100	
11313	.301	6063.0	39.65	-4.95	1.8951	-.0205	-.1224	.0028	.0397	.0014	
11314	.301	6065.3	.39	-4.86	.0044	.0171	-.0043	-.0003	.0101	.0134	

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24			RUN 31									
TP	NACH	Q	ALPHA2	BETA2	CL2	C02	CM52	CRM52	CYM52	CY52	C082	
NUM	NUMB	PA	DEC	DEC								
11289	.300	6057.1	.46	-4.98	-.0001	.0059	-.0003	.0002	.0129	.0192	.0016	
11290	.300	6046.3	-2.61	-4.94	-.0190	.0062	-.0190	-.0006	.0117	.0141	.0010	
11291	.300	6046.6	-1.98	-5.25	-.0143	.0058	-.0147	-.0005	.0117	.0139	.0010	
11293	.300	6051.9	.44	-4.88	-.0003	.0055	-.0005	.0002	.0120	.0142	.0009	
11294	.300	6048.9	2.03	-4.98	.0130	.0064	.0136	.0007	.0130	.0159	.0009	
11295	.300	6052.9	4.07	-4.97	.0354	.0083	.0347	.0015	.0129	.0154	.0010	
11296	.301	6062.7	6.17	-4.95	.0622	.0121	.0593	.0023	.0131	.0162	.0013	
11297	.300	6057.4	7.66	-5.21	.0767	.0150	.0743	-.0028	.0130	.0162	.0016	
11298	.300	6034.4	10.07	-4.95	.1130	.0236	.1055	.0036	.0126	.0164	.0022	
11299	.300	6054.4	11.87	-4.83	.1427	.0339	.1326	.0042	.0120	.0158	.0023	
11300	.301	6083.6	13.85	-4.70	.1730	.0459	.1602	.0049	.0117	.0159	.0030	
11301	.300	6059.1	15.95	-4.75	.2077	.0621	.1926	.0058	.0116	.0165	.0036	
11302	.301	6060.0	17.83	-4.78	.2417	.0798	.2248	.0064	.0112	.0164	.0044	
11303	.300	6049.6	19.93	-4.71	.2750	.1006	.2575	.0072	.0104	.0155	.0050	
11304	.299	6008.0	21.92	-4.66	.3036	.1217	.2865	.0077	.0099	.0155	.0059	
11305	.300	6059.0	23.95	-4.71	.3310	.1493	.3169	.0086	.0102	.0169	.0064	
11306	.300	6041.6	25.88	-4.66	.3636	.1735	.3534	.0094	.0103	.0181	.0071	
11307	.300	6049.3	27.75	-4.67	.3843	.1976	.3795	.0099	.0105	.0191	.0076	
11308	.300	6049.7	29.61	-4.63	.4207	.2268	.4144	.0103	.0109	.0207	.0084	
11309	.300	6057.9	31.70	-4.72	.4440	.2530	.4400	.0105	.0121	.0245	.0086	
11310	.300	6047.2	33.70	-4.54	.4580	.2822	.4704	.0113	.0143	.0300	.0102	
11311	.300	6042.0	35.84	-4.60	.4687	.3164	.5026	.0117	.0142	.0307	.0107	
11312	.301	6063.0	37.79	-4.48	.4745	.3461	.5305	.0128	.0161	.0356	.0102	
11313	.301	6065.3	.45	-4.86	.0001	.0053	.0100	.0002	.0120	.0141	.0009	
11314	.301	6065.3	.45	-4.86	.0001	.0053	.0100	.0002	.0120	.0141	.0009	

TEST 24			RUN 31									
TP	NACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2	
NUM	NUMB	PA	DEC	DEC								
11289	.300	6057.1	.46	-4.98	-.0001	.0059	-.0003	.0001	.0129	.0192	.0002	
11290	.300	6046.3	-2.61	-4.94	-.0193	.0053	-.0190	-.0001	.0117	.0141	.0003	
11291	.300	6046.6	-1.98	-5.25	-.0145	.0053	-.0147	-.0000	.0118	.0139	.0003	
11293	.300	6051.9	.44	-4.88	-.0003	.0055	-.0005	.0001	.0121	.0142	.0002	
11294	.300	6048.9	2.03	-4.98	.0132	.0060	.0136	.0005	.0130	.0159	.0002	
11295	.300	6052.9	4.07	-4.97	.0358	.0057	.0347	.0006	.0129	.0154	.0003	
11296	.301	6062.7	6.17	-4.95	.0632	.0053	.0593	.0009	.0132	.0162	.0003	
11297	.300	6057.4	7.66	-5.21	.0800	.0044	.0743	.0010	.0132	.0162	.0004	
11298	.300	6034.4	10.07	-4.95	.1154	.0037	.1055	.0013	.0130	.0164	.0005	
11299	.300	6054.4	11.87	-4.83	.1466	.0038	.1326	.0017	.0126	.0158	.0006	
11300	.301	6083.6	13.85	-4.70	.1790	.0032	.1602	.0020	.0125	.0159	.0007	
11301	.300	6059.1	15.95	-4.75	.2167	.0026	.1926	.0024	.0127	.0165	.0009	
11302	.301	6060.0	17.83	-4.78	.2546	.0019	.2248	.0029	.0127	.0164	.0011	
11303	.300	6049.6	19.93	-4.71	.2928	.0009	.2575	.0032	.0122	.0155	.0012	
11304	.299	6008.0	21.92	-4.66	.3271	-.0004	.2865	.0035	.0121	.0155	.0014	
11305	.300	6059.0	23.95	-4.72	.3614	-.0016	.3169	.0037	.0128	.0169	.0016	
11306	.300	6041.6	25.88	-4.71	.4029	-.0024	.3534	.0039	.0134	.0181	.0018	
11307	.300	6049.3	27.75	-4.66	.4321	-.0041	.3795	.0039	.0139	.0191	.0019	
11308	.300	6049.7	29.61	-4.67	.4691	-.0057	.4144	.0036	.0145	.0207	.0021	
11309	.300	6057.9	31.70	-4.72	.4940	-.0078	.4400	.0025	.0158	.0245	.0021	
11310	.300	6047.2	33.70	-4.54	.5226	-.0094	.4704	.0015	.0182	.0300	.0025	
11311	.300	6042.0	35.84	-4.60	.5563	-.0116	.5026	.0012	.0184	.0307	.0026	
11312	.301	6063.0	37.79	-4.48	.5825	-.0136	.5305	.0003	.0206	.0356	.0025	
11313	.301	6065.3	.45	-4.86	.6045	-.0152	.5549	-.0004	.0213	.0371	.0023	
11314	.301	6065.3	.45	-4.86	.0001	.0053	.0100	.0001	.0120	.0141	.0002	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	40 BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
11529	.300	5991.4	-.41	-.00	-.0137	.0164	.0043	.0001	-.0018	.0020	.0056
11530	.301	6043.1	-3.94	-.02	-.1024	.0265	.0756	.0003	-.0024	.0046	.0057
11531	.300	5991.3	-1.94	-.01	-.0690	.0197	.0267	.0001	-.0022	.0034	.0056
11532	.300	5991.4	-.62	-.00	-.0065	.0179	.0011	.0000	-.0020	.0026	.0055
11533	.300	6000.5	1.89	.01	.1073	.0202	-.0461	.0001	-.0019	.0015	.0056
11534	.300	6000.6	3.82	.02	.2090	.0279	-.0905	.0009	-.0018	.0009	.0058
11535	.300	5992.2	5.99	.03	.3343	.0467	-.1429	.0001	-.0013	-.0009	.0062
11536	.300	6012.9	7.99	.03	.4419	.0706	-.1902	.0003	-.0013	-.0004	.0065
11537	.300	5986.7	9.95	-.00	.5794	.1096	-.2401	-.0008	-.0009	-.0010	.0067
11538	.300	6010.7	11.71	.04	.6888	.1481	-.2840	.0010	-.0009	-.0035	.0070
11539	.300	6007.7	13.79	.06	.8156	.2034	-.3235	.0008	-.0006	-.0056	.0070
11540	.300	5994.3	15.91	.07	.9392	.2678	-.3642	.0010	-.0007	-.0073	.0068
11541	.300	5996.7	17.85	.06	1.0265	.3265	-.3928	.0008	-.0005	-.0083	.0067
11542	.300	6016.1	19.75	.06	1.1400	.4021	-.4236	.0001	.0006	-.0107	.0070
11543	.301	6023.2	21.91	.10	1.1068	.4359	-.3597	-.0002	.0004	-.0098	.0077
11544	.301	6017.1	23.61	.10	1.1421	.4910	-.3738	.0004	.0003	-.0104	.0079
11545	.300	6011.3	25.89	.10	1.2013	.5769	-.3988	.0016	-.0003	-.0102	.0083
11546	.301	6017.9	27.62	.08	1.2254	.6340	-.4085	.0019	.0015	-.0101	.0087
11547	.300	6000.9	29.87	.11	1.2053	.6889	-.3908	.0015	.0031	-.0134	.0105
11548	.300	5987.3	31.74	.13	1.2160	.7470	-.3921	.0022	-.0024	-.0105	.0111
11549	.301	6019.2	33.66	.22	1.2324	.8113	-.3964	.0013	.0002	-.0147	.0114
11550	.300	5988.7	35.80	.23	1.2516	.8915	-.3963	.0010	.0025	-.0207	.0125
11551	.300	5996.4	37.51	.23	1.2631	.9546	-.4000	.0020	.0028	-.0221	.0132
11552	.304	6150.2	39.60	.24	1.2710	1.0313	-.4003	.0016	.0023	-.0246	.0147
11553	.300	5997.3	41.72	.31	1.2586	1.0972	-.3905	-.0004	-.0000	-.0286	.0165
11554	.301	6019.8	-.40	-.00	-.0108	.0179	.0052	.0001	-.0021	.0060	.0056

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	40 BETA DEG	CM	CA	CM	CRM	CYM	CY
11529	.300	5991.4	-.41	-.00	-.0138	.0163	.0043	.0001	-.0019	.0020
11530	.301	6043.1	-3.94	-.02	-.1838	.0139	.0156	.0001	-.0024	.0046
11531	.300	5991.3	-1.94	-.01	-.0696	.0173	.0267	.0000	-.0022	.0034
11532	.300	5991.4	-.62	-.00	-.0067	.0179	.0011	.0000	-.0020	.0026
11533	.300	6000.5	1.89	.01	.1080	.0166	-.0461	.0002	-.0019	.0015
11534	.300	6000.6	3.82	.02	.2104	.0139	-.0905	.0010	-.0017	.0009
11535	.300	5992.2	5.99	.03	.3374	.0116	-.1429	.0003	-.0013	-.0009
11536	.300	6012.9	7.99	.03	.4474	.0085	-.1902	.0005	-.0012	-.0004
11537	.300	5986.7	9.95	-.00	.5897	.0079	-.2401	-.0006	-.0011	-.0010
11538	.300	6010.7	11.71	.04	.7045	.0052	-.2840	.0012	-.0007	-.0035
11539	.300	6007.7	13.79	.06	.8406	.0031	-.3199	.0009	-.0004	-.0056
11540	.300	5994.3	15.91	.07	.9766	.0001	-.3442	.0011	-.0004	-.0073
11541	.300	5996.7	17.85	.06	1.0772	-.0038	-.3428	.0009	-.0002	-.0083
11542	.300	6016.1	19.75	.06	1.2088	-.0066	-.4236	-.0001	.0006	-.0107
11543	.301	6023.2	21.91	.10	1.1895	-.0085	-.3597	-.0004	.0003	-.0098
11544	.301	6017.1	23.61	.10	1.2432	-.0079	-.3738	.0003	.0005	-.0104
11545	.300	6011.3	25.89	.10	1.3326	-.0054	-.3988	.0016	.0004	-.0102
11546	.301	6017.9	27.62	.08	1.3797	-.0062	-.4085	.0010	.0022	-.0101
11547	.300	6000.9	29.87	.11	1.3883	-.0029	-.3908	-.0003	.0035	-.0134
11548	.300	5987.3	31.74	.13	1.4271	-.0043	-.3921	.0031	-.0009	-.0105
11549	.301	6019.2	33.66	.22	1.4754	-.0076	-.3964	.0010	.0009	-.0147
11550	.300	5988.7	35.80	.23	1.5368	-.0094	-.3963	-.0006	.0024	-.0207
11551	.300	5996.4	37.51	.23	1.5832	-.0119	-.4000	-.0001	.0034	-.0221
11552	.304	6150.2	39.60	.24	1.6367	-.0156	-.4003	-.0003	.0028	-.0246
11553	.300	5997.3	41.72	.31	1.6696	-.0185	-.3905	-.0003	-.0003	-.0286
11554	.301	6019.8	-.40	-.00	-.0109	.0179	.0052	.0001	-.0021	.0060

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA2 DEG	40 BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CY2	CODE
11529	.300	5991.4	-1.41	-.01	-.0003	.0048	-.0008	-.0000	-.0004	-.0012	-.0002
11530	.301	6043.1	-3.93	-.07	-.0154	.0054	-.0197	-.0000	-.0002	-.0011	-.0002
11531	.300	5991.3	-1.94	-.03	-.0053	.0055	-.0074	.0000	-.0003	-.0013	-.0002
11532	.300	5991.4	-.62	-.01	-.0000	.0054	-.0004	-.0000	-.0004	-.0014	-.0003
11533	.300	6000.5	1.89	.03	.0102	.0056	.0128	-.0000	-.0005	-.0015	-.0002
11534	.300	6000.6	3.82	.07	.0194	.0067	.0238	-.0000	-.0006	-.0017	-.0001
11535	.300	5992.2	5.99	.10	.0315	.0087	.0376	-.0001	-.0008	-.0020	-.0000
11536	.300	6012.9	7.99	.13	.0421	.0109	.0491	-.0001	-.0008	-.0021	-.0000
11537	.300	5986.7	9.94	.12	.0568	.0156	.0651	-.0000	-.0007	-.0020	-.0001
11538	.300	6010.7	11.71	.19	.0681	.0193	.0772	-.0001	-.0009	-.0026	-.0001
11539	.300	6007.7	13.79	.23	.0851	.0260	.0949	-.0003	-.0013	-.0034	.0003
11540	.300	5994.3	15.91	.28	.1019	.0335	.1127	-.0004	-.0015	-.0042	.0008
11541	.300	5994.7	17.84	.28	.1140	.0399	.1259	-.0004	-.0016	-.0044	.0015
11542	.300	6016.1	19.74	.31	.1313	.0493	.1449	-.0006	-.0018	-.0048	.0030
11543	.301	6023.2	21.90	.38	.1451	.0594	.1611	-.0006	-.0016	-.0039	.0040
11544	.301	6017.1	22.61	.39	.1596	.0679	.1734	-.0006	-.0015	-.0036	.0048
11545	.300	6011.3	25.88	.42	.1718	.0821	.1934	-.0006	-.0013	-.0028	.0052
11546	.301	6017.9	27.61	.42	.1802	.0920	.2048	-.0004	-.0008	-.0015	.0051
11547	.300	6000.9	29.87	.48	.1948	.1081	.2293	-.0005	-.0010	-.0019	.0045
11548	.300	5987.3	31.73	.52	.2042	.1205	.2391	-.0007	-.0015	-.0029	.0047
11549	.301	6019.2	33.65	.64	.2132	.1334	.2525	-.0012	-.0021	-.0044	.0052
11550	.300	5988.7	35.80	.67	.2272	.1525	.2741	-.0018	-.0030	-.0065	.0059
11551	.300	5996.4	37.51	.68	.2348	.1658	.2877	-.0016	-.0027	-.0055	.0064
11552	.304	6150.2	39.60	.72	.2438	.1836	.3059	-.0022	-.0033	-.0069	.0070
11553	.300	5997.3	41.71	.81	.2506	.2021	.3223	-.0037	-.0048	-.0109	.0089
11554	.301	6019.8	-.40	-.01	-.0007	.0090	-.0013	-.0000	-.0006	-.0014	-.0002
TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA2 DEG	40 BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CY2	CODE
11529	.300	5991.4	-1.41	-.01	-.0004	.0048	-.0008	-.0000	-.0004	-.0012	-.0001
11530	.301	6043.1	-3.93	-.07	-.0157	.0043	-.0197	-.0000	-.0002	-.0011	.0030
11531	.300	5991.3	-1.94	-.03	-.0053	.0053	-.0074	-.0000	-.0003	-.0013	-.0001
11532	.300	5991.4	-.62	-.01	-.0001	.0054	-.0004	-.0000	-.0004	-.0014	-.0001
11533	.300	6000.5	1.89	.03	.0104	.0053	.0128	-.0000	-.0005	-.0015	-.0001
11534	.300	6000.6	3.82	.07	.0198	.0053	.0138	-.0000	-.0006	-.0017	-.0000
11535	.300	5992.2	5.99	.10	.0322	.0054	.0176	.0000	-.0008	-.0020	-.0000
11536	.300	6012.9	7.99	.13	.0432	.0049	.0491	.0000	-.0008	-.0021	-.0000
11537	.300	5986.7	9.94	.12	.0587	.0053	.0551	.0001	-.0006	-.0020	-.0001
11538	.300	6010.7	11.71	.19	.0708	.0050	.0772	.0001	-.0009	-.0026	-.0001
11539	.300	6007.7	13.79	.23	.0889	.0049	.0949	.0001	-.0014	-.0034	.0001
11540	.300	5994.3	15.91	.28	.1072	.0043	.1127	.0001	-.0015	-.0042	.0002
11541	.300	5994.7	17.84	.28	.1208	.0030	.1259	.0001	-.0016	-.0044	.0004
11542	.300	6016.1	19.74	.31	.1403	.0021	.1449	.0000	-.0019	-.0048	.0007
11543	.301	6023.2	21.90	.38	.1568	.0009	.1511	.0000	-.0017	-.0039	.0010
11544	.301	6017.1	22.61	.39	.1698	-.0001	.1734	.0001	-.0016	-.0036	.0012
11545	.300	6011.3	25.88	.42	.1904	-.0011	.1934	.0000	-.0014	-.0026	.0012
11546	.301	6017.9	27.61	.42	.2023	-.0019	.2348	.0000	-.0009	-.0015	.0012
11547	.300	6000.9	29.87	.48	.2228	-.0032	.2353	.0001	-.0011	-.0019	.0011
11548	.300	5987.3	31.73	.52	.2371	-.0049	.2491	.0002	-.0016	-.0029	.0011
11549	.301	6019.2	33.65	.64	.2514	-.0071	.2525	.0002	-.0024	-.0044	.0012
11550	.300	5988.7	35.80	.67	.2735	-.0092	.2741	.0003	-.0035	-.0065	.0014
11551	.300	5996.4	37.51	.68	.2872	-.0114	.2777	.0003	-.0031	-.0055	.0015
11552	.304	6150.2	39.60	.72	.3049	-.0139	.3359	.0004	-.0040	-.0069	.0017
11553	.300	5997.3	41.71	.81	.3216	-.0159	.3323	.0005	-.0061	-.0109	.0023
11554	.301	6019.8	-.40	-.01	-.0007	.0030	-.0013	-.0000	-.0006	-.0014	-.0001

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TEST TP	24	MACH	0	RUN	41	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	COC
NUM	NUMB	PA	DEG	DEG										
11555	.300	5993.2	.60	5.03	.0415	.0167	-.0142	-.0099	.0247	-.0731	.0075			
11556	.300	5990.0	-3.23	4.86	-.1498	.0224	.0809	-.0049	.0182	-.0539	.0047			
11557	.300	5995.0	-2.08	4.85	-.0944	.0189	.0371	-.0052	.0183	-.0527	.0066			
11558	.300	6009.6	.92	5.00	.0443	.0153	-.0152	-.0094	.0231	-.0673	.0073			
11559	.301	6017.7	1.89	4.86	.0966	.0187	-.0369	-.0107	.0237	-.0683	.0074			
11560	.301	6024.4	3.77	4.98	.1911	.0247	-.0792	-.0109	.0230	-.0652	.0076			
11561	.301	6017.5	5.83	5.00	.3247	.0440	-.1375	-.0119	.0237	-.0688	.0078			
11562	.300	5994.8	8.09	5.13	.4479	.0714	-.1876	-.0109	.0236	-.0693	.0077			
11563	.300	5981.6	9.97	5.07	.5726	.1071	-.2359	-.0114	.0247	-.0711	.0077			
11564	.299	5971.9	12.09	5.05	.6707	.1457	-.2718	-.0111	.0253	-.0688	.0077			
11565	.300	5991.3	13.70	5.03	.7876	.1926	-.3110	-.0106	.0249	-.0746	.0078			
11566	.301	6019.9	15.70	4.94	.8993	.2506	-.3383	-.0066	.0232	-.0787	.0079			
11567	.300	6007.3	17.86	4.87	.9688	.3132	-.3542	-.0011	.0192	-.0775	.0079			
11568	.300	5994.2	19.90	5.04	1.0669	.3795	-.3775	.0035	.0138	-.0762	.0078			
11569	.301	6019.3	21.76	5.02	1.1948	.4437	-.4010	.0060	.0067	-.0720	.0079			
11570	.300	5987.7	23.74	5.11	1.2177	.5277	-.4370	.0112	-.0079	-.0613	.0082			
11571	.300	5995.3	25.88	4.75	1.2644	.6041	-.4558	.0167	-.0296	-.0400	.0093			
11572	.300	6007.5	27.89	5.07	1.3877	.6175	-.3920	-.0047	-.0226	-.0362	.0107			
11573	.300	5978.5	29.90	5.03	1.2072	.6884	-.4011	-.0085	-.0335	-.0309	.0115			
11574	.300	6000.9	31.98	4.79	1.2353	.7521	-.4131	-.0115	-.0312	-.0347	.0114			
11575	.299	5963.9	33.64	5.00	1.2448	.8200	-.4045	-.0205	-.0176	-.0556	.0117			
11576	.300	5999.1	35.72	4.89	1.2564	.8918	-.4029	-.0230	-.0191	-.0697	.0120			
11577	.301	6028.6	37.60	4.93	1.2619	.9563	-.4013	-.0214	-.0227	-.0944	.0133			
11578	.301	6016.7	39.52	5.16	1.2477	1.0091	-.3909	-.0242	-.0339	-.1206	.0154			
11579	.300	6006.6	41.81	4.83	1.2309	1.0747	-.3820	-.0296	-.0360	-.1208	.0177			
11580	.300	5983.5	.71	4.90	.0380	.0182	-.0317	-.0100	.0238	-.0706	.0073			
TEST TP	24	MACH	0	RUN	41	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM	NUMB	PA	DEG	DEG										
11555	.300	5993.2	.60	5.03	.0417	.0161	-.0142	-.0103	.0246	-.0731				
11556	.300	5990.0	-3.23	4.86	-.1508	.0140	.0605	-.0039	.0184	-.0539				
11557	.300	5995.0	-2.08	4.85	-.0950	.0155	.0271	-.0046	.0185	-.0527				
11558	.300	6009.6	.92	5.00	.0446	.0146	-.0152	-.0097	.0230	-.0673				
11559	.301	6017.7	1.89	4.86	.0971	.0153	-.0369	-.0115	.0234	-.0683				
11560	.301	6024.4	3.77	4.98	.1923	.0120	-.0792	-.0124	.0223	-.0692				
11561	.301	6017.5	5.83	5.00	.3274	.0188	-.1375	-.0143	.0224	-.0688				
11562	.300	5994.8	8.09	5.13	.4534	.0077	-.1076	-.0141	.0218	-.0693				
11563	.300	5981.6	9.97	5.07	.5825	.0064	-.2159	-.0153	.0223	-.0711				
11564	.299	5971.9	12.09	5.05	.6863	.0020	-.2718	-.0161	.0225	-.0688				
11565	.300	5991.3	13.70	5.03	.8109	.0007	-.3110	-.0162	.0217	-.0746				
11566	.301	6019.9	15.70	4.94	.9335	-.0020	-.3383	-.0126	.0205	-.0787				
11567	.300	6007.3	17.86	4.87	1.0372	-.0051	-.3542	-.0069	.0180	-.0775				
11568	.300	5994.2	19.90	5.04	1.1324	-.0063	-.3775	-.0014	.0142	-.0762				
11569	.301	6019.3	21.76	5.02	1.2184	-.0085	-.4110	.0031	.0065	-.0720				
11570	.300	5987.7	23.74	5.11	1.3271	-.0072	-.4370	.0134	-.0027	-.0613				
11571	.300	5995.3	25.88	4.75	1.4013	-.0084	-.4558	.0280	-.0193	-.0400				
11572	.300	6007.5	27.89	5.07	1.3386	-.0051	-.3920	.0063	-.0222	-.0362				
11573	.300	5978.5	29.90	5.03	1.3897	-.0049	-.4011	.0093	-.0333	-.0309				
11574	.300	6000.9	31.98	4.79	1.4463	-.0062	-.4131	.0065	-.0326	-.0347				
11575	.299	5963.9	33.64	5.00	1.4906	-.0069	-.4040	-.0073	-.0260	-.0556				
11576	.300	5999.1	35.72	4.89	1.5406	-.0094	-.4029	-.0075	-.0289	-.0697				
11577	.301	6028.6	37.60	4.93	1.5832	-.0124	-.4013	-.0032	-.0311	-.0944				
11578	.301	6016.7	39.52	5.16	1.6046	-.0156	-.3909	.0029	-.0415	-.1206				
11579	.300	6006.6	41.81	4.83	1.6339	-.0196	-.3820	.0019	-.0466	-.1208				
11580	.300	5983.5	.71	4.90	.0382	.0177	-.0317	-.0103	.0237	-.0706				

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUM	Q PA	RUN ALPHA2 DEG	41 BETA2 DEG	CL2	CD2	CM2	CRM2	CYM2	CY2	CD2
11555	.300	5993.2	.73	5.04	.0043	.0052	.0055	-.0002	-.0145	-.0179	.0001
11556	.300	5990.0	-3.30	4.82	-.0134	.0054	-.0173	.0006	-.0115	-.0145	.0007
11557	.300	5995.0	-2.14	4.83	-.0079	.0053	-.0106	.0004	-.0114	-.0143	.0006
11558	.300	6009.6	.85	5.01	.0050	.0047	.0063	-.0002	-.0136	-.0169	.0004
11559	.301	6017.7	1.82	4.88	.0094	.0052	.0121	-.0004	-.0137	-.0168	.0006
11560	.301	6024.4	3.70	5.03	.0179	.0054	.0221	-.0008	-.0131	-.0163	.0007
11561	.301	6017.5	5.76	5.07	.0305	.0079	.0365	-.0013	-.0137	-.0174	.0008
11562	.300	5994.0	6.02	5.24	.0432	.0101	.0504	-.0019	-.0135	-.0170	.0010
11563	.300	5981.6	9.90	5.20	.0557	.0135	.0637	-.0023	-.0134	-.0181	.0016
11564	.299	5971.9	12.02	5.21	.0670	.0170	.0755	-.0026	-.0126	-.0170	.0018
11565	.300	5991.7	13.63	5.20	.0824	.0230	.0914	-.0032	-.0134	-.0169	.0023
11566	.301	6019.9	15.63	5.14	.0989	.0303	.1093	-.0039	-.0137	-.0201	.0034
11567	.300	6007.3	17.80	5.10	.1157	.0389	.1275	-.0046	-.0138	-.0208	.0045
11568	.300	5996.2	19.83	5.30	.1309	.0484	.1444	-.0053	-.0142	-.0216	.0051
11569	.301	6019.3	21.69	5.30	.1427	.0571	.1578	-.0059	-.0144	-.0226	.0053
11570	.300	5987.7	23.68	5.41	.1589	.0697	.1767	-.0067	-.0150	-.0246	.0052
11571	.300	5995.3	25.82	5.07	.1715	.0821	.1928	-.0071	-.0144	-.0249	.0045
11572	.300	6007.5	27.63	5.42	.1817	.0941	.2071	-.0083	-.0159	-.0285	.0032
11573	.300	5978.5	29.84	5.40	.1932	.1084	.2238	-.0094	-.0169	-.0321	.0026
11574	.300	6000.9	31.53	5.18	.2015	.1196	.2358	-.0096	-.0164	-.0322	.0025
11575	.299	5963.9	33.58	5.41	.2151	.1363	.2554	-.0124	-.0196	-.0409	.0031
11576	.300	5999.1	35.66	5.33	.2282	.1504	.2710	-.0152	-.0224	-.0489	.0036
11577	.301	6028.6	37.95	5.38	.2342	.1639	.2863	-.0182	-.0253	-.0580	.0079
11578	.301	6016.7	39.47	5.64	.2409	.1790	.3005	-.0232	-.0306	-.0738	.0091
11579	.300	6006.6	41.76	5.33	.2492	.1978	.3181	-.0266	-.0320	-.0797	.0096
11580	.300	5983.5	.65	4.91	.0052	.0050	.0052	-.0002	-.0140	-.0172	.0006

TEST TP	MACH NUM	Q PA	RUN ALPHA2 DEG	41 BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2
11555	.300	5993.2	.73	5.04	.0044	.0051	.0055	-.0000	-.0145	-.0177	.0002
11556	.300	5990.0	-3.30	4.82	-.0137	.0046	-.0173	-.0001	-.0115	-.0145	.0002
11557	.300	5995.0	-2.14	4.83	-.0081	.0050	-.0106	-.0001	-.0114	-.0143	.0001
11558	.300	6009.6	.85	5.01	.0051	.0046	.0063	-.0000	-.0136	-.0169	.0001
11559	.301	6017.7	1.82	4.88	.0098	.0049	.0121	.0000	-.0137	-.0168	.0001
11560	.301	6024.4	3.70	5.03	.0182	.0049	.0221	.0000	-.0131	-.0163	.0001
11561	.301	6017.5	5.76	5.07	.0311	.0048	.0365	.0000	-.0138	-.0174	.0001
11562	.300	5994.0	6.02	5.24	.0442	.0040	.0504	.0001	-.0137	-.0178	.0002
11563	.300	5981.6	9.90	5.20	.0572	.0037	.0637	.0001	-.0136	-.0181	.0004
11564	.299	5971.9	12.02	5.21	.0691	.0027	.0755	.0001	-.0128	-.0170	.0005
11565	.300	5991.3	13.63	5.20	.0855	.0050	.0914	.0000	-.0137	-.0169	.0006
11566	.301	6019.9	15.63	5.14	.1034	.0025	.1093	-.0000	-.0143	-.0201	.0008
11567	.300	6007.3	17.80	5.10	.1221	.0017	.1275	-.0001	-.0146	-.0208	.0011

11568	.300	5996.2	19.83	5.30	.1396	.0011	.1444	-.0002	-.0152	-.0216	.0013
11569	.301	6019.3	21.69	5.30	.1537	.0004	.1578	-.0001	-.0156	-.0226	.0013
11570	.300	5987.7	23.68	5.41	.1735	.0000	.1767	-.0001	-.0165	-.0246	.0013
11571	.300	5995.3	25.82	5.07	.1902	-.0008	.1928	-.0001	-.0161	-.0249	.0011
11572	.300	6007.5	27.63	5.42	.2046	-.0009	.2071	.0000	-.0179	-.0285	.0008
11573	.300	5978.5	29.84	5.40	.2215	-.0021	.2238	.0003	-.0194	-.0321	.0006
11574	.300	6000.9	31.53	5.18	.2343	-.0034	.2358	.0004	-.0190	-.0322	.0006
11575	.299	5963.9	33.58	5.41	.2546	-.0055	.2554	.0005	-.0232	-.0409	.0008
11576	.300	5999.1	35.66	5.33	.2707	-.0092	.2710	.0007	-.0271	-.0489	.0014
11577	.301	6028.6	37.95	5.38	.2856	-.0128	.2863	.0010	-.0312	-.0580	.0019
11578	.301	6016.7	39.47	5.64	.2998	-.0149	.3005	.0015	-.0384	-.0738	.0022
11579	.300	6006.6	41.76	5.33	.3176	-.0184	.3181	.0015	-.0416	-.0797	.0024
11580	.300	5983.5	.65	4.91	.0053	.0050	.0062	-.0000	-.0140	-.0172	.0001



NASA LANGLEY											
7 X 10 HIGH SPEED TUNNEL											
TEST	24	MACH	Q	RUM	42	CL	CO	CMS	CRMS	CYMS	COC
TP				ALPHA	BETA						
NUM			PA	DEG	DEG						
11581	.300	5990.1	.50	-5.08	.0071	.0174	-.0057	.0087	-.0293	.0799	.0073
11582	.300	5993.5	-2.50	-4.92	-.1017	.0199	.0441	.0054	-.0242	.0675	.0067
11583	.300	5988.3	-2.16	-5.07	-.0810	.0190	.0370	.0056	-.0247	.0692	.0067
11584	.300	6007.2	.41	-5.02	.0819	.0165	-.0042	.0084	-.0249	.0785	.0073
11585	.300	5998.5	2.10	-4.85	.0816	.0184	-.0371	.0101	-.0272	.0733	.0072
11586	.300	5996.9	3.84	-5.13	.1740	.0247	-.0752	.0108	-.0278	.0753	.0076
11587	.300	6002.4	5.84	-4.84	.2916	.0404	-.1272	.0110	-.0262	.0715	.0077
11588	.299	5973.8	7.82	-4.95	.4019	.0637	-.1697	.0090	-.0263	.0712	.0077
11589	.300	5983.8	9.75	-4.82	.5341	.0986	-.2245	.0115	-.0251	.0698	.0077
11590	.300	5999.1	11.80	-4.90	.6529	.1415	-.2651	.0095	-.0260	.0721	.0077
11591	.300	5980.4	13.71	-5.01	.7881	.1942	-.3124	.0126	-.0271	.0732	.0079
11592	.300	5988.7	15.68	-4.91	.8731	.2494	-.3326	.0081	-.0255	.0725	.0079
11593	.299	5979.5	17.89	-4.83	.9712	.3108	-.3517	.0005	-.0200	.0687	.0077
11594	.300	5998.7	19.79	-4.97	1.0509	.3722	-.3730	-.0030	-.0141	.0646	.0077
11595	.300	5995.0	21.82	-5.06	1.1153	.4380	-.3900	-.0072	-.0051	.0578	.0081
11596	.300	5989.1	23.88	-5.10	1.1936	.5219	-.4303	-.0124	.0147	.0396	.0085
11597	.300	5983.8	25.83	-5.01	1.2229	.5852	-.4472	-.0177	.0434	.0124	.0102
11598	.300	6015.4	27.91	-4.74	1.2773	.6673	-.4698	-.0191	.0676	-.0069	.0113
11599	.300	5998.7	29.67	-4.94	1.2104	.6840	-.4886	.0069	.0415	.0047	.0113
11600	.300	6004.7	31.65	-4.80	1.2330	.7341	-.4109	.0152	.0341	.0133	.0118
11601	.300	5983.8	33.71	-4.97	1.2345	.8159	-.3986	.0224	.0235	.0236	.0120
11602	.299	5970.5	35.86	-5.04	1.2388	.8828	-.3955	.0246	.0253	.0237	.0126
11603	.300	6007.2	37.64	-4.90	1.2500	.9465	-.3937	.0250	.0277	.0221	.0141
11604	.300	5986.8	39.63	-4.91	1.2452	1.0112	-.3883	.0255	.0307	.0177	.0161
11605	.301	6043.3	41.61	-5.04	1.2333	1.0704	-.3784	.0254	.0292	.0097	.0177
11606	.300	6002.4	.45	-5.11	.0044	.0168	-.0040	.0083	-.0276	.0736	.0071

TEST	24	MACH	Q	RUM	42	CH	CA	CH	CRM	CYM	CT
TP				ALPHA	BETA						
NUM			PA	DEG	DEG						
11581	.300	5990.1	.50	-5.08	.0072	.0174	-.0057	.0089	-.0292	.0799	
11582	.300	5993.5	-2.50	-4.92	-.1025	.0155	.0441	.0044	-.0244	.0675	
11583	.300	5988.3	-2.16	-5.07	-.0817	.0159	.0370	.0047	-.0249	.0692	
11584	.300	6007.2	.41	-5.02	.0816	.0165	-.0042	.0086	-.0249	.0785	
11585	.300	5998.5	2.10	-4.85	.0822	.0154	-.0371	.0111	-.0268	.0733	
11586	.300	5996.9	3.84	-5.13	.1753	.0130	-.0752	.0126	-.0271	.0753	
11587	.300	6002.4	5.84	-4.84	.2942	.0105	-.1272	.0136	-.0249	.0715	
11588	.299	5973.8	7.82	-4.95	.4068	.0085	-.1697	.0125	-.0248	.0712	
11589	.300	5983.8	9.75	-4.82	.5431	.0068	-.2245	.0156	-.0228	.0698	
11590	.300	5999.1	11.80	-4.90	.6680	.0050	-.2651	.0147	-.0235	.0711	
11591	.300	5980.4	13.71	-5.01	.8117	.0019	-.3124	.0186	-.0233	.0732	
11592	.300	5988.7	15.68	-4.91	.9084	-.0016	-.3326	.0147	-.0224	.0725	
11593	.299	5979.5	17.89	-4.83	1.0197	-.0026	-.3517	.0067	-.0188	.0687	
11594	.300	5998.7	19.79	-4.97	1.1149	-.0055	-.3730	.0019	-.0143	.0646	
11595	.300	5995.0	21.82	-5.06	1.1962	-.0079	-.3900	-.0048	-.0074	.0578	
11596	.300	5989.1	23.88	-5.10	1.3027	-.0056	-.4303	-.0173	.0084	.0398	
11597	.300	5983.8	25.83	-5.01	1.3556	-.0062	-.4472	-.0348	.0314	.0124	
11598	.300	6015.4	27.91	-4.74	1.4411	-.0081	-.4698	-.0485	.0508	-.0069	
11599	.300	5998.7	29.67	-4.94	1.2903	-.0048	-.4086	-.0145	.0394	.0047	
11600	.300	6004.7	31.65	-4.80	1.4453	-.0050	-.4109	-.0050	.0370	.0133	
11601	.300	5983.8	33.71	-4.97	1.4795	-.0068	-.3986	.0056	.0326	.0236	
11602	.299	5970.5	35.86	-5.04	1.5211	-.0103	-.3955	.0051	.0349	.0237	
11603	.300	6007.2	37.64	-4.90	1.5691	-.0122	-.3937	.0029	.0372	.0221	
11604	.300	5986.8	39.63	-4.91	1.6040	-.0154	-.3883	.0000	.0399	.0177	
11605	.301	6043.3	41.61	-5.04	1.6329	-.0187	-.3784	-.0004	.0387	.0097	
11606	.300	6002.4	.45	-5.11	.0045	.0167	-.0010	.0085	-.0275	.0736	

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## T X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUMB	Q PA	RUN 42 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
11581	.300	5990.1	.57	-5.07	.0016	.0049	.0018	.0001	.0127	.0144	.0006
11582	.300	5993.5	-2.44	-4.95	-.0078	.0049	-.0103	-.0004	.0103	.0115	.0005
11583	.300	5988.3	-2.10	-5.09	-.0046	.0048	-.0067	-.0004	.0108	.0121	.0005
11584	.300	6007.2	.48	-5.01	.0004	.0050	.0003	.0001	.0125	.0140	.0006
11585	.300	5998.5	2.16	-4.83	.0080	.0051	.0101	.0004	.0118	.0132	.0004
11586	.300	5996.9	3.91	-5.08	.0168	.0058	.0207	.0008	.0122	.0138	.0005
11587	.300	6002.4	5.91	-4.77	.0276	.0076	.0392	.0012	.0117	.0136	.0003
11588	.299	5973.8	7.88	-4.85	.0397	.0102	.0467	.0016	.0118	.0135	.0002
11589	.300	5983.8	9.81	-4.69	.0526	.0140	.0606	.0021	.0116	.0139	.0001
11590	.300	5999.1	11.86	-4.75	.0663	.0187	.0752	.0025	.0115	.0138	.0000
11591	.300	5980.4	13.77	-4.83	.0832	.0253	.0931	.0031	.0121	.0148	-.0000
11592	.300	5988.7	15.74	-4.71	.0958	.0312	.1044	.0034	.0116	.0143	.0002
11593	.299	5979.5	17.95	-4.60	.1145	.0411	.1270	.0039	.0115	.0146	.0005
11594	.300	5990.7	19.85	-4.71	.1288	.0497	.1429	.0045	.0117	.0153	.0012
11595	.300	5995.0	21.88	-4.79	.1424	.0591	.1584	.0051	.0120	.0166	.0021
11596	.300	5989.1	23.93	-4.80	.1579	.0711	.1769	.0060	.0128	.0196	.0027
11597	.300	5983.8	25.89	-4.89	.1695	.0820	.1916	.0067	.0134	.0224	.0026
11598	.300	6015.4	27.96	-4.39	.1820	.0949	.2086	.0070	.0132	.0238	.0028
11599	.300	5998.7	29.72	-4.57	.1916	.1064	.2219	.0080	.0140	.0265	.0029
11600	.300	6004.7	31.70	-4.40	.2042	.1218	.2394	.0088	.0143	.0288	.0031
11601	.300	5983.8	33.77	-4.55	.2154	.1375	.2563	.0103	.0156	.0328	.0032
11602	.299	5970.5	35.91	-4.60	.2242	.1531	.2716	.0114	.0159	.0350	.0035
11603	.300	6007.2	37.69	-4.45	.2347	.1686	.2892	.0118	.0155	.0355	.0030
11604	.300	5986.8	39.68	-4.43	.2435	.1839	.3058	.0121	.0151	.0367	.0078
11605	.301	6043.3	41.66	-4.55	.2513	.2010	.3228	.0109	.0129	.0319	.0093
11606	.300	6002.4	.51	-5.10	.0012	.0046	.0013	.0001	.0121	.0135	.0005

TEST TP	MACH NUMB	Q PA	RUN 42 ALPHA2 DEG	BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
11581	.300	5990.1	.57	-5.07	.0017	.0049	.0018	-.0000	.0127	.0144	.0002
11582	.300	5993.5	-2.44	-4.95	-.0078	.0046	-.0103	.0000	.0103	.0115	.0001
11583	.300	5988.3	-2.10	-5.09	-.0047	.0047	-.0067	.0000	.0108	.0121	.0001
11584	.300	6007.2	.48	-5.01	.0005	.0050	.0003	-.0000	.0125	.0140	.0002
11585	.300	5998.5	2.16	-4.83	.0081	.0048	.0101	-.0000	.0118	.0132	.0001
11586	.300	5996.9	3.91	-5.08	.0171	.0048	.0107	-.0000	.0122	.0138	.0002
11587	.300	6002.4	5.91	-4.77	.0282	.0047	.0132	-.0000	.0118	.0136	.0001
11588	.299	5973.8	7.88	-4.85	.0408	.0047	.0167	.0000	.0118	.0135	.0001
11589	.300	5983.8	9.81	-4.69	.0543	.0049	.0206	.0001	.0118	.0139	.0000
11590	.300	5999.1	11.86	-4.75	.0688	.0047	.0252	.0001	.0117	.0138	-.0000
11591	.300	5980.4	13.77	-4.83	.0868	.0040	.0311	.0002	.0125	.0148	-.0001
11592	.300	5988.7	15.74	-4.71	.1006	.0047	.0364	.0002	.0121	.0143	.0000
11593	.299	5979.5	17.95	-4.60	.1216	.0038	.0420	.0002	.0122	.0146	.0001
11594	.300	5998.7	19.85	-4.71	.1380	.0030	.0479	.0003	.0125	.0153	.0003
11595	.300	5995.0	21.88	-4.79	.1541	.0018	.0544	.0003	.0130	.0166	.0005
11596	.300	5989.1	23.93	-4.80	.1732	.0009	.0619	.0003	.0142	.0196	.0007
11597	.300	5983.8	25.89	-4.89	.1883	-.0003	.0706	.0002	.0150	.0224	.0007
11598	.300	6015.4	27.96	-4.39	.2053	-.0015	.0806	.0001	.0149	.0239	.0007
11599	.300	5998.7	29.72	-4.57	.2191	-.0026	.0919	.0000	.0162	.0265	.0008
11600	.300	6004.7	31.70	-4.40	.2377	-.0037	.1044	-.0000	.0168	.0288	.0008
11601	.300	5983.8	33.77	-4.55	.2555	-.0054	.1184	-.0001	.0187	.0328	.0008
11602	.299	5970.5	35.91	-4.60	.2714	-.0075	.1336	-.0001	.0196	.0350	.0009
11603	.300	6007.2	37.69	-4.45	.2888	-.0101	.1492	-.0002	.0195	.0355	.0013
11604	.300	5986.8	39.68	-4.43	.3049	-.0139	.1658	-.0003	.0194	.0367	.0020
11605	.301	6043.3	41.66	-4.55	.3214	-.0169	.1828	-.0004	.0169	.0319	.0023
11606	.300	6002.4	.51	-5.10	.0013	.0045	.0013	-.0000	.0121	.0135	.0001

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 44 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
11650	.300	6014.3	.80	4.94	.0412	.0163	-.0143	-.0027	-.0111	-.0241	.0073
11651	.301	6016.8	-2.19	4.92	-.1032	.0166	.0387	.0018	-.0095	-.0149	.0066
11652	.301	6021.2	-1.91	5.01	-.0927	.0180	.0336	.0016	-.0098	-.0142	.0066
11653	.301	6031.5	.84	5.05	.0420	.0165	-.0150	-.0028	-.0113	-.0230	.0077
11654	.300	6014.2	1.95	5.24	.0972	.0184	-.0372	-.0046	-.0112	-.0226	.0078
11655	.301	6029.4	4.05	5.07	.2147	.0278	-.0894	-.0064	-.0103	-.0208	.0077
11656	.301	6022.6	5.86	5.21	.3104	.0413	-.1304	-.0075	-.0097	-.0201	.0075
11657	.300	6005.5	7.99	4.94	.4524	.0721	-.1887	-.0083	-.0078	-.0250	.0074
11658	.301	6016.6	9.86	4.97	.5727	.1066	-.2363	-.0100	-.0062	-.0299	.0074
11659	.301	6026.8	11.82	5.12	.6923	.1491	-.2807	-.0115	-.0050	-.0341	.0076
11660	.300	5995.0	13.99	5.00	.8208	.2058	-.3222	-.0108	-.0044	-.0389	.0076
11661	.300	6001.5	15.89	5.10	.9090	.2565	-.3395	-.0083	-.0056	-.0409	.0078
11662	.300	5986.8	17.80	4.91	.9920	.3130	-.3564	-.0036	-.0081	-.0399	.0077
11663	.300	6006.7	20.00	5.08	1.0704	.3825	-.3774	.0004	-.0127	-.0417	.0078
11664	.300	6008.9	21.80	4.94	1.1513	.4515	-.4051	.0034	-.0167	-.0423	.0080
11665	.300	5986.7	23.80	5.09	1.2250	.5308	-.4373	.0076	-.0243	-.0406	.0087
11666	.300	5992.2	25.75	5.13	1.2612	.6000	-.4584	.0165	-.0386	-.0368	.0099
11667	.300	5999.5	27.80	5.05	1.1880	.6212	-.3930	-.0057	-.0266	-.0343	.0104
11668	.301	6024.3	29.67	4.80	1.1973	.6766	-.4005	-.0052	-.0296	-.0364	.0106
11669	.300	5995.2	31.55	5.04	1.2322	.7510	-.4083	-.0136	-.0216	-.0352	.0110
11670	.301	6014.1	33.64	4.99	1.2309	.8102	-.3998	-.0191	-.0100	-.0671	.0113
11671	.300	5993.4	35.77	4.83	1.2379	.8799	-.3958	-.0183	-.0082	-.0855	.0119
11672	.300	5995.2	37.57	5.14	1.2480	.9455	-.3955	-.0191	-.0169	-.1193	.0130
11673	.300	5980.3	39.52	5.15	1.2390	1.0031	-.3924	-.0206	-.0255	-.1331	.0144
11674	.300	5993.0	41.68	4.90	1.2321	1.0730	-.3869	-.0253	-.0272	-.1369	.0163
11675	.301	6032.9	.77	5.08	.0398	.0164	-.0143	-.0029	-.0104	-.0225	.0074

TEST TP NUM	24 MACH NUMB	Q PA	RUN 44 ALPHA DEG	BETA DEG	CN	CA	CN	CRM	CYM	CY
11650	.300	6014.3	.80	4.94	.0414	.0157	-.0143	-.0026	-.0111	-.0241
11651	.301	6016.8	-2.19	4.92	-.1038	.0147	.0367	.0014	-.0096	-.0149
11652	.301	6021.2	-1.91	5.01	-.0932	.0149	.0336	.0013	-.0098	-.0142
11653	.301	6031.5	.84	5.05	.0422	.0159	-.0150	-.0026	-.0113	-.0230
11654	.300	6014.2	1.95	5.26	.0977	.0153	-.0372	-.0042	-.0114	-.0226
11655	.301	6029.4	4.05	5.07	.2162	.0126	-.0394	-.0057	-.0108	-.0208
11656	.301	6022.6	5.86	5.21	.3130	.0094	-.1304	-.0065	-.0104	-.0201
11657	.300	6005.5	7.99	4.94	.4581	.0085	-.1887	-.0072	-.0089	-.0250
11658	.301	6016.6	9.86	4.97	.5825	.0069	-.2363	-.0088	-.0078	-.0299
11659	.301	6026.8	11.82	5.12	.7082	.0042	-.2807	-.0102	-.0073	-.0341
11660	.300	5995.0	13.99	5.00	.8462	.0012	-.3222	-.0094	-.0069	-.0389
11661	.300	6001.5	15.89	5.10	.9445	-.0022	-.3395	-.0065	-.0077	-.0409
11662	.300	5986.8	17.80	4.91	1.0402	-.0052	-.3564	-.0009	-.0088	-.0399
11663	.300	6006.7	20.00	5.08	1.1367	-.0066	-.3774	.0047	-.0118	-.0417
11664	.300	6008.9	21.80	4.94	1.2367	-.0083	-.4351	.0094	-.0142	-.0423
11665	.300	5986.7	23.80	5.09	1.3351	-.0087	-.4373	.0167	-.0191	-.0406
11666	.300	5992.2	25.75	5.13	1.3966	-.0075	-.4584	.0317	-.0276	-.0368
11667	.300	5999.5	27.80	5.05	1.3406	-.0046	-.3930	.0073	-.0262	-.0343
11668	.301	6024.3	29.67	4.80	1.3753	-.0049	-.4005	.0101	-.0283	-.0364
11669	.300	5995.2	31.55	5.04	1.4431	-.0047	-.4083	-.0065	-.0256	-.0352
11670	.301	6014.1	33.64	4.99	1.4736	-.0075	-.3990	-.0104	-.0190	-.0671
11671	.300	5993.4	35.77	4.83	1.5187	-.0097	-.3958	-.0101	-.0174	-.0855
11672	.300	5995.2	37.57	5.14	1.5657	-.0114	-.3755	-.0048	-.0251	-.1193
11673	.300	5980.3	39.52	5.15	1.5941	-.0147	-.3924	.0004	-.0328	-.1331
11674	.300	5993.0	41.68	4.90	1.6337	-.0179	-.3869	-.0008	-.0371	-.1369
11675	.301	6032.9	.77	5.08	.0400	.0159	-.0143	-.0027	-.0104	-.0225

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 44 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CY52	CDB2
11650	.300	6014.3	.74	4.95	.0049	.0054	.0060	-.0002	-.0135	-.0164	.0006
11651	.301	6016.8	-2.25	4.89	-.0096	.0054	-.0128	.0004	-.0107	-.0130	.0006
11652	.301	6021.2	-1.97	4.99	-.0091	.0053	-.0122	.0003	-.0108	-.0131	.0006
11653	.301	6031.5	.77	5.06	.0046	.0053	.0056	-.0002	-.0138	-.0169	.0006
11654	.300	6014.2	1.88	5.28	.0097	.0053	.0123	-.0004	-.0140	-.0169	.0007
11655	.301	6029.4	3.98	5.12	.0197	.0063	.0242	-.0009	-.0132	-.0162	.0007
11656	.301	6022.6	5.80	5.28	.0287	.0074	.0344	-.0012	-.0128	-.0158	.0007
11657	.300	6005.5	7.92	5.04	.0430	.0106	.0500	-.0017	-.0126	-.0162	.0010
11658	.301	6016.6	9.80	5.10	.0555	.0139	.0632	-.0021	-.0127	-.0169	.0013
11659	.301	6026.8	11.75	5.27	.0693	.0183	.0777	-.0027	-.0131	-.0178	.0019
11660	.300	5995.0	13.93	5.18	.0855	.0248	.0947	-.0033	-.0134	-.0191	.0024
11661	.300	6001.5	15.82	5.30	.1004	.0311	.1107	-.0039	-.0135	-.0194	.0037
11662	.300	5986.8	17.73	5.14	.1147	.0387	.1263	-.0043	-.0131	-.0194	.0043
11663	.300	6006.7	19.93	5.33	.1308	.0487	.1441	-.0051	-.0137	-.0206	.0051
11664	.300	6008.9	21.74	5.22	.1447	.0585	.1599	-.0056	-.0137	-.0213	.0053
11665	.300	5986.7	23.74	5.39	.1588	.0699	.1764	-.0065	-.0145	-.0235	.0053
11666	.300	5992.2	25.69	5.45	.1710	.0821	.1921	-.0073	-.0151	-.0257	.0042
11667	.300	5999.5	27.74	5.40	.1820	.0946	.2075	-.0081	-.0155	-.0275	.0033
11668	.301	6024.3	29.62	5.17	.1897	.1053	.2192	-.0085	-.0155	-.0290	.0028
11669	.300	5995.2	31.49	5.43	.2031	.1207	.2375	-.0104	-.0179	-.0333	.0028
11670	.301	6014.1	33.59	5.41	.2117	.1341	.2511	-.0120	-.0191	-.0394	.0031
11671	.300	5993.4	35.72	5.27	.2223	.1492	.2678	-.0145	-.0215	-.0468	.0049
11672	.300	5995.2	37.51	5.60	.2322	.1622	.2836	-.0193	-.0272	-.0622	.0085
11673	.300	5980.3	39.47	5.62	.2379	.1763	.2964	-.0229	-.0303	-.0727	.0092
11674	.300	5993.0	41.63	5.39	.2476	.1962	.3155	-.0261	-.0318	-.0789	.0098
11675	.301	6032.9	.71	5.09	.0036	.0043	.0045	-.0002	-.0130	-.0158	.0006
TEST TP NUM	24 MACH NUMB	Q PA	RUN 44 ALPHA2 DEG	BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
11650	.300	6014.3	.74	4.95	.0050	.0093	.0060	.0000	-.0135	-.0164	.0001
11651	.301	6016.8	-2.25	4.89	-.0098	.0050	-.0128	-.0000	-.0107	-.0130	.0001
11652	.301	6021.2	-1.97	4.99	-.0093	.0050	-.0122	-.0000	-.0108	-.0131	.0001
11653	.301	6031.5	.77	5.06	.0046	.0052	.0056	.0000	-.0138	-.0169	.0001
11654	.300	6014.2	1.88	5.28	.0099	.0050	.0123	.0000	-.0140	-.0169	.0002
11655	.301	6029.4	3.98	5.12	.0201	.0049	.0242	.0000	-.0133	-.0162	.0002
11656	.301	6022.6	5.80	5.28	.0293	.0044	.0344	.0001	-.0129	-.0158	.0002
11657	.300	6005.5	7.92	5.04	.0440	.0046	.0500	.0001	-.0127	-.0162	.0002
11658	.301	6016.6	9.80	5.10	.0570	.0043	.0632	.0001	-.0129	-.0169	.0004
11659	.301	6026.8	11.75	5.27	.0715	.0038	.0777	.0000	-.0134	-.0178	.0005
11660	.300	5995.0	13.93	5.18	.0890	.0035	.0947	.0000	-.0138	-.0191	.0006
11661	.300	6001.5	15.82	5.30	.1051	.0035	.1107	-.0000	-.0141	-.0194	.0009
11662	.300	5986.8	17.73	5.14	.1210	.0019	.1263	-.0001	-.0138	-.0194	.0011
11663	.300	6006.7	19.93	5.33	.1395	.0012	.1441	-.0001	-.0146	-.0206	.0013
11664	.300	6008.9	21.74	5.22	.1561	.0007	.1599	-.0001	-.0148	-.0213	.0013
11665	.300	5986.7	23.74	5.39	.1735	.0001	.1764	-.0001	-.0159	-.0235	.0013
11666	.300	5992.2	25.69	5.45	.1897	-.0002	.1921	-.0000	-.0168	-.0257	.0010
11667	.300	5999.5	27.74	5.40	.2051	-.0009	.2075	.0001	-.0175	-.0275	.0008
11668	.301	6024.3	29.62	5.17	.2169	-.0022	.2192	.0003	-.0177	-.0290	.0006
11669	.300	5995.2	31.49	5.43	.2362	-.0032	.2375	.0005	-.0207	-.0353	.0007
11670	.301	6014.1	33.59	5.41	.2506	-.0054	.2511	.0006	-.0226	-.0394	.0008
11671	.300	5993.4	35.72	5.27	.2676	-.0087	.2678	.0008	-.0259	-.0468	.0012
11672	.300	5995.2	37.51	5.60	.2829	-.0127	.2836	.0013	-.0333	-.0622	.0021
11673	.300	5980.3	39.47	5.62	.2958	-.0151	.2964	.0016	-.0380	-.0727	.0023
11674	.300	5993.0	41.63	5.39	.3154	-.0179	.3155	.0016	-.0411	-.0789	.0024
11675	.301	6032.9	.71	5.09	.0037	.0043	.0045	.0000	-.0130	-.0158	.0001

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	PA	MACH	Q	RUN ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMS	PA	DEG	DEG	DEG							
11676	.300	6009.3	.42	-4.88	.0009	.0154	-.0044	-.0006	.0100	.0166	.0075	
11677	.300	6007.3	-3.09	-4.91	-.1288	.0204	.0579	-.0048	.0092	.0197	.0070	
11678	.300	6006.9	-1.99	-4.87	-.0710	.0179	.0341	-.0038	.0089	.0165	.0068	
11679	.301	6016.8	.47	-5.06	.0029	.0151	-.0059	-.0004	.0105	.0172	.0074	
11680	.301	6015.9	1.84	-5.13	.0676	.0175	-.0323	.0019	.0108	.0173	.0073	
11681	.300	6008.2	4.03	-4.74	.1929	.0269	-.0858	.0041	.0111	.0165	.0075	
11682	.300	6002.4	8.03	-9.06	.3096	.0433	-.1348	.0061	.0123	.0152	.0073	
11683	.300	5982.8	7.80	-4.91	.4005	.0629	-.1684	.0062	.0111	.0164	.0072	
11684	.300	5979.1	9.68	-4.78	.5262	.0961	-.2198	.0090	.0101	.0229	.0077	
11685	.300	5994.4	13.99	-5.08	.8061	.2017	-.3164	.0130	.0090	.0207	.0077	
11686	.301	6009.8	15.65	-4.91	.8730	.2426	-.3509	.0028	.0136	.0207	.0075	
11687	.300	5990.0	17.90	-4.80	.9770	.3113	-.3919	.0005	.0179	.0207	.0076	
11688	.300	5996.5	19.84	-5.08	1.0543	.3746	-.4337	-.0043	.0242	.0156	.0081	
11689	.301	6016.5	21.76	-5.08	1.1228	.4401	-.4919	-.0076	.0319	.0112	.0086	
11690	.300	5983.7	23.92	-4.97	1.2133	.5292	-.4333	-.0152	.0451	.0096	.0093	
11691	.300	5983.3	25.76	-4.84	1.2544	.5964	-.4545	-.0213	.0625	.0007	.0101	
11692	.300	5993.5	27.82	-4.83	1.2685	.6598	-.4742	.0074	.0383	.0103	.0106	
11693	.299	5962.4	29.88	-5.13	1.2172	.6942	-.4128	.0170	.0244	.0228	.0114	
11694	.300	5989.2	31.87	-5.18	1.2278	.7573	-.4023	.0200	.0162	.0294	.0115	
11695	.300	5988.3	33.82	-4.88	1.2358	.8197	-.3959	.0200	.0150	.0384	.0121	
11696	.299	5966.7	35.67	-5.17	1.2359	.8767	-.3918	.0199	.0141	.0347	.0132	
11697	.300	5993.2	37.66	-4.73	1.2480	.9492	-.3931	.0181	.0142	.0298	.0148	
11698	.300	5989.9	39.67	-4.95	1.2489	1.0220	-.3889	.0175	.0115	.0271	.0158	
11699	.300	5979.5	41.73	-5.10	1.2330	1.0753	-.3826	.0156	.0111	.0159	.0076	
11700	.300	5986.1	.40	-5.00	.0033	.0166	-.0056	-.0008				

TEST TP	24	MACH	Q	RUN ALPHA	BETA	CM	CA	CM	CRM	CYM	CY
NUM	NUMS	PA	DEG	DEG	DEG						
11676	.300	6009.3	.42	-4.88	.0010	.0154	-.0044	-.0007	.0099	.0166	
11677	.300	6007.3	-3.09	-4.91	-.1297	.0135	.0579	-.0043	.0094	.0197	
11678	.300	6006.9	-1.99	-4.87	-.0716	.0154	.0341	-.0035	.0091	.0165	
11679	.301	6016.8	.47	-5.06	.0030	.0151	-.0059	-.0005	.0105	.0172	
11680	.301	6015.9	1.84	-5.13	.0681	.0153	-.0323	.0015	.0108	.0173	
11681	.300	6008.2	4.03	-4.74	.1943	.0133	-.0858	.0033	.0113	.0165	
11682	.300	6002.4	8.03	-9.06	.3124	.0105	-.1348	.0048	.0128	.0165	
11683	.300	5982.8	7.80	-4.91	.4094	.0080	-.1684	.0046	.0118	.0152	
11684	.300	5979.1	9.68	-4.78	.5349	.0063	-.2198	.0072	.0119	.0164	
11685	.300	5994.4	13.99	-5.08	.8310	.0008	-.3164	.0105	.0115	.0229	
11686	.301	6009.8	15.65	-4.91	.9061	-.0019	-.3331	.0072	.0114	.0207	
11687	.300	5990.0	17.90	-4.80	1.0255	-.0039	-.3509	-.0015	.0138	.0207	
11688	.300	5996.5	19.84	-5.08	1.1188	-.0055	-.3737	-.0056	.0170	.0180	
11689	.301	6016.5	21.76	-5.08	1.2059	-.0076	-.3919	-.0129	.0209	.0156	
11690	.300	5983.7	23.92	-4.97	1.3236	-.0082	-.4333	-.0199	.0260	.0112	
11691	.300	5983.3	25.76	-4.84	1.3689	-.0081	-.4545	-.0333	.0340	.0056	
11692	.300	5993.5	27.82	-4.83	1.4298	-.0083	-.4742	-.0480	.0453	-.0007	
11693	.299	5962.4	29.88	-5.13	1.4012	-.0044	-.4128	-.0126	.0369	.0103	
11694	.300	5989.2	31.87	-5.18	1.4425	-.0052	-.4023	.0016	.0297	.0228	
11695	.300	5988.3	33.82	-4.88	1.4830	-.0067	-.3959	.0075	.0246	.0394	
11696	.299	5966.7	35.67	-5.17	1.5152	-.0086	-.3718	.0074	.0238	.0384	
11697	.300	5993.2	37.66	-4.73	1.5680	-.0112	-.3331	.0057	.0222	.0347	
11698	.300	5989.9	39.67	-4.95	1.6121	-.0149	-.3585	.0043	.0221	.0298	
11699	.300	5979.5	41.73	-5.10	1.6359	-.0182	-.3326	.0040	.0189	.0271	
11700	.300	5986.1	.40	-5.00	.0034	.0165	-.0056	-.0009	.0111	.0159	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	HACH	Q	RUM	45	BETA2	CL2	CD2	CM2	CRM2	CYM2	CY2	CD2
TP		NUM	PA	ALPHA2	DEG	DEG							
11676	.300	6009.3	.48	-4.87	.0001	.0047	-.0001	.0001	.0122	.0140	.0005		
11677	.300	6007.3	-3.02	-4.95	-.0049	.0046	-.0130	-.0006	.0115	.0135	.0006		
11678	.300	6006.9	-1.93	-4.90	-.0043	.0047	-.0061	-.0003	.0108	.0124	.0005		
11679	.301	6016.8	.54	-5.05	-.0005	.0046	-.0007	.0001	.0127	.0145	.0005		
11680	.301	6015.9	1.91	-5.10	.0061	.0046	.0076	.0004	.0129	.0149	.0004		
11681	.300	6006.2	4.09	-4.69	.0168	.0063	.0209	.0009	.0125	.0147	.0004		
11682	.300	6002.4	6.09	-4.98	.0284	.0080	.0343	.0014	.0130	.0154	.0002		
11683	.300	5982.8	7.87	-4.81	.0381	.0099	.0450	.0017	.0120	.0143	.0001		
11684	.300	5979.1	9.74	-4.66	.0510	.0136	.0588	.0021	.0118	.0141	-.0001		
11685	.300	5994.4	14.05	-4.98	.0847	.0259	.0947	.0034	.0129	.0150	.0002		
11686	.301	6009.8	15.72	-4.71	.0947	.0307	.1051	.0036	.0120	.0151	.0005		
11687	.300	5990.0	17.96	-4.57	.1141	.0409	.1265	.0047	.0122	.0162	.0011		
11688	.300	5996.5	19.90	-4.83	.1285	.0496	.1424	.0053	.0126	.0177	.0022		
11689	.301	6016.5	21.82	-4.80	.1423	.0590	.1583	.0060	.0128	.0197	.0030		
11690	.300	5983.7	23.98	-4.57	.1585	.0714	.1770	.0067	.0132	.0221	.0034		
11691	.300	5993.5	25.82	-4.52	.1706	.0819	.1918	.0074	.0137	.0246	.0027		
11692	.300	5995.5	27.87	-4.48	.1784	.0922	.2039	.0088	.0152	.0287	.0030		
11693	.299	5962.4	29.94	-4.76	.1930	.1080	.2237	.0098	.0158	.0316	.0032		
11694	.300	5989.2	31.93	-4.47	.2033	.1233	.2410	.0105	.0157	.0331	.0032		
11695	.300	5988.3	33.87	-4.47	.2157	.1382	.2587	.0120	.0168	.0369	.0034		
11696	.299	5966.7	35.73	-4.74	.2238	.1519	.2707	.0125	.0150	.0345	.0053		
11697	.300	5993.2	37.71	-4.27	.2344	.1678	.2885	.0116	.0141	.0342	.0081		
11698	.300	5989.9	39.91	-4.47	.2439	.1851	.3064	.0108	.0124	.0307	.0093		
11699	.300	5979.5	41.78	-4.61	.2486	.1992	.3191	.0001	.0131	.0151	.0006		
11700	.300	5986.1	.46	-4.99	.0002	.0047							
TEST	24	HACH	Q	RUM	45	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2
TP		NUM	PA	ALPHA2	DEG	DEG							
11676	.300	6009.3	.48	-4.87	.0002	.0047	-.0001	-.0000	.0122	.0140	.0001		
11677	.300	6007.3	-3.02	-4.95	-.0101	.0041	-.0130	.0000	.0115	.0135	.0002		
11678	.300	6006.9	-1.93	-4.90	-.0043	.0046	-.0061	.0000	.0108	.0124	.0001		
11679	.301	6016.8	.54	-5.05	-.0005	.0046	-.0007	-.0000	.0127	.0145	.0001		
11680	.301	6015.9	1.91	-5.10	.0061	.0046	.0076	-.0000	.0129	.0149	.0002		
11681	.300	6006.2	4.09	-4.69	.0172	.0051	.0209	-.0000	.0125	.0147	.0001		
11682	.300	6002.4	6.09	-4.98	.0291	.0049	.0343	-.0000	.0131	.0154	.0001		
11683	.300	5982.8	7.87	-4.81	.0391	.0046	.0450	.0000	.0122	.0143	.0000		
11684	.300	5979.1	9.74	-4.66	.0525	.0048	.0588	.0001	.0120	.0143	-.0001		
11685	.300	5994.4	14.05	-4.90	.0885	.0045	.0947	.0002	.0133	.0161	.0000		
11686	.301	6009.8	15.72	-4.71	.0995	.0039	.1051	.0002	.0125	.0150	.0000		
11687	.300	5990.0	17.96	-4.57	.1211	.0037	.1265	.0002	.0124	.0151	.0001		
11688	.300	5996.5	19.90	-4.83	.1377	.0029	.1424	.0003	.0131	.0162	.0003		
11689	.301	6016.5	21.82	-4.80	.1540	.0018	.1583	.0003	.0136	.0177	.0006		
11690	.300	5983.7	23.98	-4.57	.1739	.0008	.1770	.0003	.0141	.0197	.0008		
11691	.300	5993.5	25.82	-4.52	.1893	-.0004	.1918	.0002	.0148	.0221	.0009		
11692	.300	5995.5	27.87	-4.48	.2008	-.0019	.2039	.0001	.0156	.0246	.0007		
11693	.299	5962.4	29.94	-4.76	.2212	-.0027	.2237	.0000	.0175	.0287	.0008		
11694	.300	5989.2	31.93	-4.78	.2396	-.0039	.2410	-.0000	.0185	.0316	.0008		
11695	.300	5988.3	33.87	-4.47	.2562	-.0055	.2587	-.0001	.0189	.0331	.0009		
11696	.299	5966.7	35.73	-4.74	.2704	-.0074	.2707	-.0001	.0206	.0369	.0014		
11697	.300	5993.2	37.71	-4.27	.2883	-.0107	.2885	-.0001	.0189	.0345	.0020		
11698	.300	5989.9	39.91	-4.47	.3058	-.0145	.3064	-.0002	.0183	.0342	.0023		
11699	.300	5979.5	41.78	-4.61	.3181	-.0171	.3191	-.0002	.0164	.0307	.0023		
11700	.300	5986.1	.46	-4.99	.0002	.0047	.0301	-.0000	.0131	.0151	.0002		

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUM	Q PA	RUN ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
12791	.300	6041.5	-4.42	-0.00	-0.0199	.0162	.0034	-.0000	-.0013	.0049	.0056
12792	.300	6033.7	-4.04	.01	-.2050	.0248	.0342	.0003	-.0014	.0066	.0038
12793	.300	6041.5	-1.91	.01	-.0774	.0193	.0125	.0002	-.0012	.0090	.0057
12794	.301	6030.6	-.63	-0.00	-.0130	.0169	.0018	.0003	-.0015	.0058	.0057
12795	.301	6030.5	2.13	-0.00	.1230	.0184	-.0201	.0002	-.0016	.0039	.0057
12796	.301	6049.6	3.78	-0.01	.2130	.0244	-.0336	.0003	-.0016	.0042	.0059
12797	.301	6044.5	6.13	-0.01	.3457	.0431	-.0582	.0009	-.0017	.0034	.0064
12798	.300	6027.1	8.05	-0.01	.4472	.0670	-.0741	.0009	-.0017	.0024	.0068
12799	.300	6032.7	10.03	-0.02	.5324	.0968	-.0853	.0005	-.0016	.0021	.0073
12800	.300	6030.1	11.76	-0.02	.6073	.1285	-.1003	.0008	-.0012	.0019	.0075
12801	.300	6024.8	13.48	-0.02	.6980	.1750	-.1212	.0009	-.0008	.0012	.0074
12802	.300	6020.4	16.01	-0.02	.7767	.2276	-.1475	.0006	-.0007	.0000	.0070
12803	.301	6045.1	18.10	-0.01	.8047	.2771	-.1896	.0009	-.0004	.0003	.0076
12804	.300	6029.2	20.21	-0.00	.8204	.3183	-.2017	.0024	-.0024	.0020	.0077
12805	.300	6041.7	22.08	-0.01	.8367	.3553	-.2080	.0032	-.0032	.0052	.0079
12806	.300	6029.6	24.02	.01	.8504	.3928	-.2143	.0100	-.0282	.0165	.0087
12807	.299	6013.8	25.65	.05	.8823	.4352	-.2273	.0108	-.0368	.0219	.0096
12808	.300	6000.0	28.11	.05	.9185	.4999	-.2454	.0089	-.0341	.0220	.0111
12809	.300	6026.9	30.28	.03	.9401	.5551	-.2562	.0082	-.0361	.0135	.0135
12810	.300	6037.8	31.53	-0.02	.9493	.5898	-.2575	.0008	.0097	-.0092	.0128
12811	.299	6002.0	33.76	.00	.9564	.6432	-.2684	.0039	-.0166	-.0035	.0162
12812	.301	6042.9	35.69	-0.00	.9657	.6934	-.2777	.0051	-.0207	-.0080	.0196
12813	.300	6023.4	37.53	.01	.9623	.7361	-.2808	.0057	-.0177	-.0090	.0223
12814	.301	6041.6	39.78	-0.03	.9577	.7903	-.2853	.0045	-.0147	-.0155	.0248
12815	.300	6021.1	41.86	-0.07	.9471	.8382	-.2888	-.0046	.0073	.0070	.0268
12816	.301	6061.3	43.67	-0.01	.9297	.8724	-.2821	-.0012	.0031	.0121	.0272
12817	.300	6030.0	45.49	-0.01	.9067	.9038	-.2785	.0015	.0010	.0117	.0277
12818	.300	6035.3	47.65	-0.01	.8873	.9496	-.2848	-.0019	-.0017	.0062	.0275
12819	.300	6024.6	-4.41	-0.00	-.0170	.0164	.0034	.0002	-.0015	.0072	.0056
TEST TP	24 MACH NUM	Q PA	RUN ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY	
12791	.300	6041.5	-4.42	-0.00	-.0200	.0160	.0034	-.0000	-.0013	.0049	
12792	.300	6033.7	-4.04	.01	-.2050	.0143	.0342	.0002	-.0014	.0066	
12793	.300	6041.5	-1.91	.01	-.0780	.0167	.0125	.0002	-.0012	.0090	
12794	.301	6030.6	-.63	-0.00	-.0132	.0167	.0018	.0003	-.0015	.0058	
12795	.301	6030.5	2.13	-0.00	.1236	.0138	-.0201	.0003	-.0016	.0039	
12796	.301	6049.6	3.78	-0.01	.2142	.0103	-.0356	.0007	-.0016	.0042	
12797	.301	6044.5	6.13	-0.01	.3483	.0059	-.0582	.0010	-.0016	.0034	
12798	.300	6027.1	8.05	-0.01	.4522	.0037	-.0741	.0012	-.0015	.0024	
12799	.300	6032.7	10.03	-0.02	.5431	.0025	-.0955	.0008	-.0014	.0021	
12800	.300	6030.1	11.76	-0.02	.6207	.0020	-.1303	.0010	-.0010	.0019	
12801	.300	6024.8	13.48	-0.02	.7196	.0024	-.1212	.0011	-.0006	.0012	
12802	.300	6020.4	16.01	-0.02	.8094	.0046	-.1475	.0008	-.0005	.0000	
12803	.301	6045.1	18.10	-0.01	.8910	.0133	-.1396	.0010	-.0001	-.0003	
12804	.300	6029.2	20.21	-0.00	.8799	.0152	-.2017	.0030	-.0014	.0020	
12805	.300	6041.7	22.08	-0.01	.9089	.0147	-.2380	.0049	-.0036	.0052	
12806	.300	6029.6	24.02	.01	.9366	.0127	-.2143	.0208	-.0217	.0165	
12807	.300	6013.8	25.65	.05	.9838	.0105	-.2273	.0256	-.0285	.0219	
12808	.299	6000.0	28.11	.05	1.0457	.0082	-.2454	.0239	-.0259	.0220	
12809	.300	6026.9	30.28	.03	1.0918	.0053	-.2562	.0253	-.0271	.0135	
12810	.300	6037.8	31.53	-0.02	1.1175	.0061	-.2575	-.0044	.0087	-.0092	
12811	.299	6002.0	33.76	.00	1.1526	.0032	-.2684	.0125	-.0116	-.0035	
12812	.301	6042.9	35.69	-0.00	1.1889	-.0001	-.2777	.0162	-.0138	-.0080	
12813	.300	6023.4	37.53	.01	1.2116	-.0024	-.2808	.0153	-.0106	-.0090	
12814	.301	6041.6	39.78	-0.03	1.2317	-.0055	-.2853	.0128	-.0085	-.0155	
12815	.300	6021.1	41.86	-0.07	1.2647	-.0077	-.2888	-.0083	.0024	.0070	
12816	.301	6061.3	43.67	-0.01	1.2748	-.0108	-.2821	-.0030	.0014	.0121	
12817	.300	6030.0	45.49	-0.01	1.2802	-.0131	-.2785	.0003	.0018	.0117	
12818	.300	6035.3	47.65	-0.01	1.2996	-.0161	-.2848	.0000	-.0026	.0062	
12819	.300	6024.6	-4.41	-0.00	-.0171	.0163	.0034	.0002	-.0015	.0072	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN	BETA2	CL2	CD2	CMS2	CRM2	CYM2	CY2	CDB2
TP				88								
NUM		NUM	PA	DEG	DEG							
12791	.300	6041.5	-4.2	-0.01	-0.0064	.0038	-.0008	-.0000	.0005	.0008	-.0028	
12792	.300	6033.7	-4.04	-.05	-.0095	.0045	-.0157	-.0000	.0005	.0007	-.0026	
12793	.300	6041.5	-1.91	-.01	-.0010	.0043	-.0034	-.0001	.0011	.0018	-.0027	
12794	.301	6050.6	-.63	-.01	-.0001	.0046	-.0004	-.0000	.0006	.0008	-.0028	
12795	.301	6050.5	2.13	.02	.0063	.0046	.0106	-.0000	.0003	.0004	-.0026	
12796	.301	6049.6	3.78	.04	.0107	.0049	.0175	.0000	.0005	.0008	-.0024	
12797	.301	6044.5	6.13	.07	.0167	.0057	.0272	.0000	.0005	.0009	-.0019	
12798	.300	6027.1	8.04	.09	.0214	.0067	.0349	.0000	.0005	.0008	-.0013	
12799	.300	6032.7	10.03	.11	.0267	.0078	.0431	.0001	.0005	.0009	-.0006	
12800	.300	6030.1	11.76	.13	.0316	.0088	.0506	.0001	.0007	.0012	.0001	
12801	.300	6024.8	13.88	.16	.0373	.0108	.0594	.0001	.0005	.0009	.0009	
12802	.300	6020.4	16.01	.19	.0434	.0131	.0687	.0001	.0005	.0010	.0010	
12803	.301	6045.1	18.10	.22	.0476	.0152	.0764	.0001	.0004	.0009	-.0006	
12804	.300	6029.2	20.21	.25	.0520	.0178	.0839	.0001	.0004	.0010	-.0008	
12805	.300	6041.7	22.08	.28	.0564	.0203	.0913	.0002	.0006	.0015	-.0007	
12806	.300	6029.6	24.01	.32	.0611	.0235	.0990	.0001	.0002	.0005	-.0005	
12807	.300	6013.8	25.64	.37	.0652	.0262	.1057	.0001	.0002	.0006	.0001	
12808	.299	6000.0	28.11	.40	.0713	.0313	.1161	.0005	.0009	.0024	.0009	
12809	.300	6026.9	30.28	.41	.0762	.0354	.1248	.0002	.0002	.0006	.0017	
12810	.300	6037.8	31.52	.37	.0793	.0385	.1301	.0001	.0003	.0009	.0021	
12811	.299	6002.0	33.76	.42	.0839	.0433	.1386	-.0007	-.0010	-.0027	.0028	
12812	.301	6042.9	35.68	.43	.0880	.0479	.1459	-.0013	-.0017	-.0046	.0034	
12813	.300	6023.4	37.53	.46	.0914	.0522	.1526	-.0009	-.0012	-.0027	.0040	
12814	.301	6041.6	39.78	.44	.0958	.0562	.1612	-.0019	-.0022	-.0049	.0045	
12815	.300	6021.1	41.85	.43	.0996	.0642	.1699	-.0010	-.0009	-.0001	.0050	
12816	.301	6061.3	43.66	.51	.1025	.0694	.1751	-.0006	-.0006	.0031	.0055	
12817	.300	6030.0	45.49	.53	.1052	.0749	.1812	-.0007	-.0007	.0050	.0060	
12818	.300	6035.3	47.65	.54	.1072	.0800	.1864	-.0035	-.0032	-.0011	.0065	
12819	.300	6024.6	-.41	-.01	-.0007	.0040	-.0012	-.0000	.0004	.0006	-.0028	

TEST	24	MACH	Q	RUN	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP				88								
NUM		NUM	PA	DEG	DEG							
12791	.300	6041.5	-4.2	-0.01	-.0005	.0038	-.0008	-.0000	.0005	.0008	-.0007	
12792	.300	6033.7	-4.04	-.05	-.0098	.0038	-.0157	-.0000	.0005	.0007	-.0007	
12793	.300	6041.5	-1.91	-.01	-.0012	.0043	-.0034	-.0000	.0011	.0018	-.0007	
12794	.301	6050.6	-.63	-.01	-.0001	.0046	-.0004	-.0000	.0006	.0008	-.0007	
12795	.301	6050.5	2.13	.02	.0065	.0044	.0106	-.0000	.0003	.0004	-.0007	
12796	.301	6049.6	3.78	.04	.0110	.0042	.0175	-.0000	.0005	.0008	-.0006	
12797	.301	6044.5	6.13	.07	.0172	.0038	.0272	-.0000	.0005	.0009	-.0005	
12798	.300	6027.1	8.04	.09	.0221	.0036	.0349	-.0000	.0005	.0008	-.0004	
12799	.300	6032.7	10.03	.11	.0276	.0030	.0431	-.0000	.0005	.0009	-.0002	
12800	.300	6030.1	11.76	.13	.0328	.0022	.0506	-.0000	.0007	.0012	-.0000	
12801	.300	6024.8	13.88	.16	.0367	.0015	.0594	-.0000	.0005	.0009	.0002	
12802	.300	6020.4	16.01	.19	.0433	.0007	.0687	-.0000	.0005	.0010	.0002	
12803	.301	6045.1	18.10	.22	.0500	-.0003	.0764	-.0000	.0004	.0009	-.0002	
12804	.300	6029.2	20.21	.25	.0550	-.0013	.0839	-.0000	.0004	.0010	-.0003	
12805	.300	6041.7	22.08	.28	.0599	-.0024	.0913	-.0000	.0007	.0015	-.0002	
12806	.300	6029.6	24.01	.32	.0653	-.0034	.0990	.0000	.0002	.0005	-.0002	
12807	.300	6013.8	25.64	.37	.0701	-.0044	.1057	.0000	.0002	.0006	-.0001	
12808	.299	6000.0	28.11	.40	.0776	-.0060	.1161	.0000	.0010	.0024	.0002	
12809	.300	6026.9	30.28	.41	.0838	-.0077	.1248	.0000	.0003	.0006	.0004	
12810	.300	6037.8	31.52	.37	.0877	-.0087	.1301	-.0001	.0003	.0009	.0005	
12811	.299	6002.0	33.76	.42	.0938	-.0106	.1386	-.0000	-.0012	-.0027	.0006	
12812	.301	6042.9	35.68	.43	.0994	-.0124	.1459	-.0000	-.0022	-.0046	.0008	
12813	.300	6023.4	37.53	.46	.1043	-.0143	.1526	-.0000	-.0015	-.0027	.0009	
12814	.301	6041.6	39.78	.44	.1108	-.0166	.1612	-.0000	-.0029	-.0049	.0011	
12815	.300	6021.1	41.85	.43	.1170	-.0187	.1699	-.0001	-.0013	-.0001	.0012	
12816	.301	6061.3	43.66	.51	.1221	-.0206	.1751	-.0000	-.0009	.0031	.0013	
12817	.300	6030.0	45.49	.53	.1272	-.0226	.1812	-.0000	-.0010	.0050	.0015	
12818	.300	6035.3	47.65	.54	.1313	-.0253	.1864	-.0000	-.0047	-.0011	.0016	
12819	.300	6024.6	-.41	-.01	-.0007	.0040	-.0012	-.0000	.0004	.0006	-.0007	





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TEST	24			RUN	89							
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRM2	CYM2	CY2	CD2
NUM		NUM8	PA	DEG	DEG							
12020	.301	6056.5	.53	4.96	.0018	.0046	.0026	-.0001	-.0135	-.0162	-.0028	
12021	.300	6024.0	-1.87	5.10	-.0041	.0042	-.0073	.0003	-.0118	-.0143	-.0023	
12022	.301	6059.2	.60	5.06	.0022	.0041	.0031	-.0001	-.0130	-.0155	-.0028	
12023	.301	6045.6	1.98	5.23	.0067	.0044	.0101	-.0004	-.0138	-.0165	-.0026	
12024	.300	6039.6	4.08	5.27	.0107	.0043	.0173	-.0007	-.0132	-.0158	-.0023	
12025	.300	6030.8	6.06	5.22	.0154	.0049	.0252	-.0010	-.0129	-.0157	-.0020	
12026	.301	6043.4	7.95	5.00	.0209	.0061	.0339	-.0014	-.0128	-.0160	-.0015	
12027	.300	6035.9	10.07	5.29	.0271	.0073	.0433	-.0018	-.0132	-.0167	-.0009	
12028	.301	6054.1	12.03	5.06	.0319	.0090	.0509	-.0020	-.0127	-.0164	-.0003	
12029	.300	6027.0	14.03	5.25	.0378	.0110	.0600	-.0025	-.0133	-.0176	-.0002	
12030	.301	6055.8	15.60	5.00	.0419	.0129	.0665	-.0028	-.0130	-.0181	-.0001	
12031	.300	6038.0	17.84	5.31	.0462	.0150	.0743	-.0034	-.0138	-.0196	-.0013	
12032	.300	6020.5	19.95	5.11	.0511	.0173	.0825	-.0037	-.0132	-.0192	-.0013	
12033	.301	6071.2	21.81	5.31	.0542	.0190	.0879	-.0044	-.0139	-.0207	-.0012	
12034	.300	6018.1	23.99	5.45	.0604	.0228	.0975	-.0049	-.0139	-.0214	-.0006	
12035	.301	6067.4	25.73	5.33	.0656	.0264	.1060	-.0052	-.0136	-.0217	-.0001	
12037	.300	6039.1	27.69	5.36	.0702	.0300	.1141	-.0060	-.0141	-.0239	.0008	
12038	.301	6076.8	29.83	5.57	.0745	.0335	.1213	-.0068	-.0148	-.0261	.0015	
12039	.300	6021.0	31.76	5.42	.0788	.0379	.1294	-.0084	-.0162	-.0319	.0020	
12040	.300	6030.1	33.72	5.64	.0822	.0420	.1363	-.0111	-.0192	-.0411	.0021	
12041	.300	6026.4	35.60	5.37	.0859	.0463	.1431	-.0120	-.0191	-.0425	.0026	
12042	.300	6033.4	37.50	5.66	.0891	.0507	.1496	-.0145	-.0213	-.0491	.0030	
12043	.300	6023.6	39.57	5.54	.0928	.0553	.1566	-.0156	-.0213	-.0495	.0040	
12044	.301	6041.8	41.49	5.77	.0952	.0593	.1618	-.0167	-.0215	-.0508	.0046	
12045	.300	6031.5	43.63	5.50	.0989	.0654	.1697	-.0188	-.0222	-.0544	.0053	
12046	.300	6008.1	45.52	5.70	.1018	.0705	.1759	-.0184	-.0208	-.0509	.0058	
12047	.301	6050.3	47.67	5.48	.1051	.0771	.1831	-.0166	-.0177	-.0427	.0063	
12048	.301	6061.3	.57	4.96	.0020	.0045	.0028	-.0001	-.0135	-.0161	-.0028	

TEST	24			RUN	89							
TP		MACH	Q	ALPHA2	BETA2	CL2	CA2	CM2	CRM2	CYM2	CY2	CD2
NUM		NUM8	PA	DEG	DEG							
12020	.301	6056.5	.53	4.96	.0019	.0046	.0026	.0000	-.0135	-.0162	-.0007	
12021	.300	6024.0	-1.87	5.10	-.0042	.0041	-.0073	-.0001	-.0118	-.0143	-.0007	
12022	.301	6059.2	.60	5.06	.0023	.0041	.0031	.0000	-.0130	-.0155	-.0007	
12023	.301	6045.6	1.98	5.23	.0068	.0041	.0101	.0001	-.0138	-.0165	-.0007	
12024	.300	6039.6	4.08	5.27	.0110	.0035	.0173	.0002	-.0132	-.0158	-.0006	
12025	.300	6030.8	6.06	5.22	.0158	.0032	.0252	.0003	-.0129	-.0157	-.0005	
12026	.301	6043.4	7.95	5.00	.0215	.0032	.0339	.0004	-.0129	-.0160	-.0004	
12027	.300	6035.9	10.07	5.29	.0279	.0025	.0433	.0006	-.0133	-.0167	-.0002	
12028	.301	6054.1	12.03	5.06	.0331	.0021	.0509	.0006	-.0128	-.0164	-.0001	
12029	.300	6027.0	14.03	5.28	.0394	.0015	.0590	.0008	-.0135	-.0176	.0000	
12030	.301	6055.8	15.60	5.00	.0439	.0011	.0665	.0008	-.0132	-.0181	.0000	
12031	.300	6038.0	17.84	5.31	.0486	.0001	.0743	.0010	-.0142	-.0196	-.0003	
12032	.300	6020.5	19.95	5.11	.0539	-.0011	.0825	.0010	-.0137	-.0192	-.0004	
12033	.301	6071.2	21.81	5.31	.0574	-.0025	.0879	.0011	-.0146	-.0207	-.0004	
12034	.300	6018.1	23.99	5.45	.0645	-.0037	.0975	.0012	-.0147	-.0214	-.0002	
12035	.301	6067.4	25.73	5.33	.0705	-.0047	.1060	.0012	-.0145	-.0217	-.0000	
12037	.300	6039.1	27.69	5.36	.0762	-.0060	.1141	.0013	-.0153	-.0239	.0002	
12038	.301	6076.8	29.83	5.57	.0813	-.0080	.1213	.0014	-.0162	-.0261	.0004	
12039	.300	6021.0	31.76	5.42	.0870	-.0093	.1294	.0013	-.0162	-.0319	.0005	
12040	.300	6030.1	33.72	5.64	.0917	-.0107	.1363	.0014	-.0221	-.0411	.0005	
12041	.300	6026.4	35.60	5.37	.0968	-.0124	.1431	.0014	-.0225	-.0425	.0007	
12042	.300	6033.4	37.50	5.66	.1016	-.0141	.1496	.0015	-.0257	-.0491	.0008	
12043	.300	6023.6	39.57	5.54	.1068	-.0165	.1566	.0016	-.0264	-.0495	.0010	
12044	.301	6041.8	41.49	5.77	.1106	-.0186	.1618	.0017	-.0271	-.0508	.0012	
12045	.300	6031.5	43.63	5.50	.1167	-.0209	.1697	.0018	-.0290	-.0544	.0013	
12046	.300	6008.1	45.52	5.70	.1216	-.0233	.1759	.0019	-.0277	-.0509	.0015	
12047	.301	6050.3	47.67	5.48	.1277	-.0258	.1831	.0019	-.0242	-.0427	.0016	
12048	.301	6061.3	.57	4.96	.0021	.0044	.0028	.0000	-.0135	-.0161	-.0007	

## NASA LANGLEY

## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	NACH MUN8	Q PA	RUN ALPHA	90 BETA	CL	CD	CMS	CRMS	CYMS	CYS	COC
				DEG	DEG							
12849	.300	6020.0	.45	-4.86	-0.029	.0130	-.0012	.0085	-.0269	.0762	.0074	
12850	.300	6034.8	-2.00	-4.97	-.0894	.0156	.0152	.0062	-.0229	.0684	.0068	
12851	.301	6033.5	.53	-5.09	.0026	.0124	-.0022	.0047	-.0269	.0767	.0074	
12852	.301	6056.5	1.92	-5.00	.0751	.0147	-.0137	.0095	-.0270	.0763	.0076	
12853	.301	6044.8	4.17	-5.09	.1985	.0228	-.0343	.0097	-.0266	.0751	.0079	
12854	.301	6040.8	6.11	-4.84	.3248	.0398	-.0575	.0090	-.0236	.0740	.0080	
12855	.301	6045.7	7.99	-5.14	.4202	.0400	-.0735	.0075	-.0260	.0749	.0080	
12856	.300	6037.9	9.80	-4.87	.5123	.0884	-.0873	.0061	-.0250	.0728	.0080	
12857	.301	6049.0	11.78	-4.89	.6028	.1258	-.1043	.0046	-.0232	.0734	.0079	
12858	.300	6023.7	13.77	-5.14	.6889	.1682	-.1233	.0036	-.0211	.0760	.0079	
12859	.301	6041.5	15.91	-4.84	.7680	.2208	-.1510	.0022	-.0158	.0682	.0080	
12860	.300	6031.0	17.93	-5.06	.8429	.2645	-.1862	.0016	-.0123	.0673	.0077	
12861	.301	6047.9	19.57	-5.15	.9086	.2973	-.1966	.0085	-.0105	.0662	.0076	
12862	.301	6041.6	21.98	-4.76	.9823	.3377	-.2006	.0140	-.0308	.0753	.0080	
12863	.300	6019.5	23.69	-5.07	.9429	.3807	-.2137	.0176	-.0377	.0828	.0100	
12864	.300	6011.6	25.92	-5.10	.9042	.4477	-.2343	.0177	-.0327	.0755	.0107	
12865	.301	6027.6	27.69	-4.89	.9215	.4898	-.2392	.0174	-.0315	.0711	.0128	
12866	.301	6044.3	29.58	-5.19	.9388	.5367	-.2439	.0167	-.0256	.0673	.0138	
12867	.299	5997.9	32.04	-4.98	.9742	.6101	-.2577	.0172	-.0094	.0388	.0159	
12868	.300	6021.8	33.56	-5.15	.9940	.6580	-.2650	.0169	.0005	.0220	.0177	
12869	.300	6024.2	35.76	-4.80	.9951	.7126	-.2700	.0107	.0034	.0117	.0207	
12870	.302	6081.4	37.78	-5.05	.9179	.7199	-.2455	.0071	-.0017	.0129	.0223	
12871	.301	6045.5	39.60	-5.26	.9208	.7506	-.2439	.0043	-.0102	.0059	.0243	
12872	.301	6060.7	41.47	-4.89	.9094	.7889	-.2468	.0042	-.0138	-.0026	.0271	
12873	.301	6073.9	43.74	-5.19	.9130	.8550	-.2621	.0075	-.0131	.0175	.0282	
12874	.301	6048.2	45.50	-4.81	.8983	.8908	-.2643	.0054	-.0141	.0133	.0276	
12875	.300	6033.7	47.75	-5.03	.8880	.9505	-.2751	.0050	-.0125	.0293	.0273	
12876	.301	6045.9	.39	-4.93	-.0030	.0139	-.0013	.0086	-.0273	.0763	.0075	
TEST TP	24	NACH MUN8	Q PA	RUN ALPHA	90 BETA	CN	CA	CN	CRM	CYM	CY	
				DEG	DEG							
12849	.300	6020.0	.45	-4.86	-.0028	.0130	-.0012	.0087	-.0269	.0762		
12850	.300	6034.8	-2.00	-4.97	-.0899	.0129	.0152	.0054	-.0231	.0684		
12851	.301	6033.5	.53	-5.09	.0027	.0124	-.0022	.0090	-.0268	.0767		
12852	.301	6056.5	1.92	-5.00	.0756	.0121	-.0137	.0104	-.0266	.0763		
12853	.301	6044.8	4.17	-5.09	.1996	.0083	-.0343	.0116	-.0261	.0751		
12854	.301	6040.8	6.11	-4.84	.3272	.0051	-.0575	.0117	-.0245	.0740		
12855	.301	6045.7	7.99	-5.14	.4244	.0010	-.0735	.0110	-.0247	.0749		
12856	.300	6037.9	9.80	-4.87	.5199	-.0001	-.0873	.0103	-.0236	.0728		
12857	.301	6049.0	11.78	-4.89	.6158	.0001	-.1043	.0093	-.0218	.0734		
12858	.300	6023.7	13.77	-5.14	.7092	-.0067	-.1233	.0085	-.0197	.0760		
12859	.301	6041.5	15.91	-4.84	.7931	.0018	-.1510	.0065	-.0146	.0682		
12860	.300	6031.0	17.93	-5.06	.8372	.0092	-.1862	.0053	-.0112	.0673		
12861	.301	6047.9	19.57	-5.15	.8539	.0120	-.1966	.0072	-.0086	.0662		
12862	.301	6041.6	21.98	-4.76	.8704	.0128	-.2006	.0245	-.0233	.0753		
12863	.300	6019.5	23.69	-5.07	.9248	.0099	-.2137	.0312	-.0274	.0828		
12864	.300	6011.6	25.92	-5.10	1.0069	.0073	-.2343	.0302	-.0217	.0755		
12865	.300	6027.6	27.69	-4.89	1.0436	.0056	-.2392	.0300	-.0198	.0711		
12866	.301	6044.3	29.58	-5.19	1.0814	.0032	-.2439	.0271	-.0140	.0673		
12867	.299	5997.9	32.04	-4.98	1.1495	.0005	-.2577	.0196	.0012	.0388		
12868	.300	6021.8	33.56	-5.15	1.1920	-.0012	-.2650	.0138	.0097	.0220		
12869	.300	6024.2	35.76	-4.80	1.2241	-.0031	-.2700	.0067	.0090	.0117		
12870	.302	6081.4	37.78	-5.05	1.1817	-.0063	-.2455	.0067	.0030	.0129		
12871	.301	6045.5	39.60	-5.26	1.1880	-.0085	-.2439	.0113	-.0039	.0055		
12872	.301	6060.7	41.47	-4.89	1.2039	-.0111	-.2468	.0123	-.0043	-.0026		
12873	.301	6073.9	43.74	-5.19	1.2308	-.0135	-.2621	.0145	-.0043	.0175		
12874	.301	6048.2	45.50	-4.81	1.2650	-.0163	-.2643	.0139	-.0060	.0133		
12875	.300	6033.7	47.75	-5.03	1.3007	-.0181	-.2751	.0131	-.0041	.0293		
12876	.301	6045.9	.39	-4.93	-.0029	.0139	-.0013	.0086	-.0272	.0763		

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## DATA LANELEY

## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	0	RUN	90	ALPHA2	BETA2	CL2	CD2	CM2	CRM2	CYM2	CY2	CDC2
TP		MACH	PA	DEG		DEG	DEG							
12849	.300	6020.0	.51	-4.85	.0006	.0045	.0007	.0001	.0132	.0161	-.0027			
12850	.300	6034.8	-1.94	-4.99	-.0028	.0042	-.0056	-.0003	.0115	.0140	-.0024			
12851	.301	6033.3	.60	-5.08	.0006	.0043	.0008	.0001	.0134	.0163	-.0027			
12852	.301	6036.3	1.99	-4.97	.0045	.0042	.0072	.0004	.0132	.0160	-.0026			
12853	.301	6044.8	4.23	-5.04	.0101	.0044	.0166	.0007	.0130	.0157	-.0022			
12854	.301	6040.8	6.17	-4.76	.0154	.0056	.0253	.0011	.0130	.0162	-.0017			
12855	.301	6043.7	8.06	-5.04	.0199	.0059	.0326	.0015	.0136	.0172	-.0012			
12856	.300	6037.9	9.86	-4.75	.0232	.0074	.0408	.0017	.0130	.0168	-.0006			
12857	.301	6049.0	11.84	-4.73	.0309	.0092	.0495	.0021	.0134	.0179	-.0001			
12858	.300	6023.7	13.84	-4.96	.0363	.0107	.0580	.0028	.0146	.0205	.0003			
12859	.301	6041.3	15.97	-4.64	.0427	.0134	.0676	.0032	.0145	.0216	.0002			
12860	.300	6031.0	17.99	-4.83	.0462	.0151	.0744	.0039	.0150	.0228	-.0010			
12861	.301	6047.9	19.63	-4.90	.0494	.0167	.0800	.0043	.0151	.0232	-.0012			
12862	.301	6041.6	22.04	-4.48	.0550	.0199	.0895	.0045	.0140	.0218	-.0014			
12863	.300	6019.5	23.75	-4.77	.0594	.0228	.0957	.0053	.0151	.0244	-.0010			
12864	.300	6011.6	25.98	-4.77	.0654	.0267	.1064	.0060	.0154	.0257	-.0001			
12865	.300	6027.6	27.74	-4.55	.0703	.0304	.1146	.0064	.0150	.0261	.0004			
12866	.301	6044.3	29.64	-4.82	.0766	.0341	.1221	.0071	.0156	.0275	.0004			
12867	.299	5997.9	32.09	-4.37	.0813	.0401	.1333	.0065	.0133	.0227	.0021			
12868	.300	6021.8	33.62	-4.73	.0858	.0444	.1407	.0057	.0118	.0212	.0029			
12869	.300	6024.2	35.81	-4.36	.0913	.0505	.1501	.0034	.0078	.0086	.0036			
12870	.302	6081.4	37.63	-4.59	.0949	.0553	.1576	.0039	.0082	.0096	.0040			
12871	.301	6045.3	39.63	-4.78	.0987	.0605	.1649	.0022	.0060	.0043	.0046			
12872	.301	6060.7	41.51	-4.48	.1014	.0649	.1708	.0003	.0034	-.0011	.0050			
12873	.301	6073.9	43.79	-4.67	.1046	.0713	.1793	.0029	.0060	.0109	.0053			
12874	.301	6048.2	45.34	-4.28	.1069	.0764	.1845	.0010	.0037	.0077	.0057			
12875	.300	6033.7	47.79	-4.48	.1113	.0849	.1949	.0017	.0042	.0150	.0063			
12876	.301	6043.9	.46	-4.93	.0003	.0045	.0002	.0001	.0137	.0167	-.0027			
TEST	24	MACH	0	RUN	90	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		MACH	PA	DEG		DEG	DEG							
12849	.300	6020.0	.51	-4.85	.0006	.0045	.0007	-.0000	.0132	.0161	-.0007			
12850	.300	6034.8	-1.94	-4.99	-.0028	.0041	-.0056	-.0000	.0115	.0140	-.0007			
12851	.301	6033.3	.60	-5.08	.0006	.0043	.0008	-.0000	.0134	.0163	-.0007			
12852	.301	6036.3	1.99	-4.97	.0047	.0041	.0072	-.0001	.0132	.0160	-.0007			
12853	.301	6044.8	4.23	-5.04	.0104	.0037	.0166	-.0002	.0130	.0157	-.0006			
12854	.301	6040.8	6.17	-4.76	.0160	.0039	.0253	-.0004	.0131	.0162	-.0004			
12855	.301	6043.7	8.06	-5.04	.0206	.0030	.0326	-.0005	.0137	.0172	-.0003			
12856	.300	6037.9	9.86	-4.75	.0261	.0030	.0408	-.0005	.0131	.0168	-.0002			
12857	.301	6049.0	11.84	-4.73	.0321	.0026	.0495	-.0007	.0136	.0179	-.0000			
12858	.300	6023.7	13.84	-4.96	.0378	.0018	.0580	-.0008	.0148	.0205	.0001			
12859	.301	6041.3	15.97	-4.64	.0448	.0011	.0676	-.0009	.0148	.0216	.0001			
12860	.300	6031.0	17.99	-4.83	.0486	-.0001	.0744	-.0010	.0155	.0228	-.0003			
12861	.301	6047.9	19.63	-4.90	.0522	-.0008	.0800	-.0011	.0157	.0232	-.0003			
12862	.301	6041.6	22.04	-4.48	.0584	-.0022	.0895	-.0011	.0147	.0218	-.0004			
12863	.300	6019.5	23.75	-4.77	.0634	-.0031	.0967	-.0012	.0160	.0244	-.0002			
12864	.300	6011.6	25.98	-4.77	.0705	-.0046	.1064	-.0013	.0165	.0257	-.0000			
12865	.300	6027.6	27.74	-4.55	.0764	-.0058	.1146	-.0013	.0163	.0261	.0001			
12866	.301	6044.3	29.64	-4.82	.0817	-.0073	.1221	-.0015	.0171	.0275	.0003			
12867	.299	5997.9	32.09	-4.37	.0862	-.0092	.1333	-.0016	.0147	.0227	.0006			
12868	.300	6021.8	33.62	-4.73	.0960	-.0105	.1407	-.0018	.0130	.0182	.0008			
12869	.300	6024.2	35.81	-4.36	.1036	-.0124	.1501	-.0018	.0084	.0086	.0010			
12870	.302	6081.4	37.63	-4.59	.1089	-.0145	.1576	-.0020	.0088	.0096	.0011			
12871	.301	6045.3	39.63	-4.78	.1146	-.0164	.1649	-.0021	.0060	.0043	.0012			
12872	.301	6060.7	41.51	-4.48	.1189	-.0186	.1708	-.0020	.0027	-.0011	.0013			
12873	.301	6073.9	43.79	-4.67	.1248	-.0209	.1793	-.0020	.0044	.0109	.0014			
12874	.301	6048.2	45.34	-4.28	.1293	-.0228	.1845	-.0019	.0034	.0077	.0015			
12875	.300	6033.7	47.79	-4.48	.1377	-.0254	.1949	-.0020	.0041	.0150	.0016			
12876	.301	6043.9	.46	-4.93	.0004	.0046	.0002	-.0000	.0137	.0167	-.0007			





NASA LANGLEY												7 X 10 HIGH SPEED TUNNEL											
TEST 24				RUN 93																			
TP	MACH	Q		ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC											
NUM	NUMB	PA	DEG	DEG	DEG																		
12942	.301	6039.8	.72	5.15	.0285	.0148	.0017	-.0013	-.0112	-.0210	.0078												
12943	.301	6038.4	-2.18	4.94	-.1223	.0206	-.0010	.0028	-.0097	-.0132	.0068												
12944	.300	6027.7	.77	4.93	.0323	.0150	.0019	-.0012	-.0109	-.0166	.0076												
12945	.300	6024.3	3.86	5.14	.0218	.0278	.0048	-.0061	-.0109	-.0174	.0077												
12946	.300	6011.0	7.99	4.89	.0140	.0801	.0109	-.0091	-.0094	-.0142	.0072												
12947	.301	6044.6	11.78	5.20	.7541	.1614	.0287	-.0084	-.0093	-.0212	.0072												
12948	.301	6029.7	15.79	4.76	1.0811	.3049	.0534	-.0168	-.0052	-.0225	.0072												
12949	.300	6017.2	19.89	5.07	1.3866	.4956	.0788	-.0234	-.0003	-.0291	.0075												
12950	.300	6001.7	23.70	4.87	1.5595	.6721	.1268	-.0159	-.0073	-.0136	.0076												
12951	.300	6029.2	27.55	5.18	1.8648	.8942	.1864	-.0034	-.0036	.0125	.0104												
12952	.301	6031.8	.77	4.84	.0423	.0187	.0022	-.0017	-.0114	-.0145	.0077												

TEST 24				RUN 93																
TP	MACH	Q		ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS									
NUM	NUMB	PA	DEG	DEG	DEG															
12942	.301	6039.8	.72	5.15	.0287	.0144	.0017	-.0012	-.0112	-.0210	.0078									
12943	.301	6038.4	-2.18	4.94	-.1230	.0160	-.0010	.0024	-.0098	-.0132	.0068									
12944	.300	6027.7	.77	4.93	.0327	.0145	.0019	-.0010	-.0109	-.0166	.0076									
12945	.300	6024.3	3.86	5.14	.0220	.0131	.0048	-.0054	-.0113	-.0174	.0077									
12946	.300	6011.0	7.99	4.89	.0202	.0079	.0109	-.0077	-.0106	-.0192	.0072									
12947	.301	6044.6	11.78	5.20	.7711	.0040	.0287	-.0063	-.0109	-.0212	.0072									
12948	.301	6029.7	15.79	4.76	1.1233	-.0007	.0534	-.0148	-.0096	-.0225	.0072									
12949	.300	6017.2	19.89	5.07	1.4725	-.0057	.0768	-.0219	-.0083	-.0291	.0075									
12950	.300	6001.7	23.70	4.87	1.6951	-.0114	.1268	-.0113	-.0129	-.0136	.0076									
12951	.300	6029.2	27.55	5.18	1.8712	-.0127	.1864	-.0125	-.0313	.0125	.0104									
12952	.301	6031.8	.77	4.84	.0420	.0102	.0022	-.0015	-.0114	-.0145	.0077									

TEST	24			RUN	93							
TP		MACH	Q	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM		NUMB	PA	DEG	DEG							
12942	.301	6039.8	.72	5.15	.0287	.0144	.0017	-.0012	-.0112	-.0210		
12943	.301	6038.4	-2.18	4.94	-.1230	.0160	-.0010	.0024	-.0098	-.0132		
12944	.300	6027.7	.77	4.93	.0327	.0145	.0019	-.0010	-.0109	-.0166		
12945	.300	6024.3	3.86	5.14	.2200	.0131	.0048	-.0054	-.0113	-.0174		
12946	.300	6011.0	7.99	4.89	.5202	.0079	.0109	-.0077	-.0106	-.0192		
12947	.301	6044.6	11.78	5.20	.7711	.0048	.0287	-.0063	-.0109	-.0212		
12948	.301	6029.7	15.79	4.76	1.1233	-.0007	.0534	-.0148	-.0094	-.0225		
12949	.300	6017.2	19.89	5.07	1.4725	-.0057	.0768	-.0219	-.0083	-.0291		
12950	.300	6001.7	23.70	4.87	1.6951	-.0114	.1268	-.0113	-.0129	-.0136		
12951	.300	6029.2	27.55	5.18	1.8712	-.0127	.1864	.0125	-.0313	.0125		
12952	.301	6031.8	.77	4.84	.0428	.0182	.0022	-.0015	-.0114	-.0145		

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TEST	24			RUN	93																		
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDS2											
NUM		NUMB	PA	DEG	DEG																		
12942	.301	6039.8	.65	5.18	.0060	.0062	.0056	-.0001	-.0129	-.0153	.0010												
12943	.301	6038.4	-2.25	4.91	-.0336	.0076	-.0307	.0011	-.0105	-.0123	.0011												
12944	.300	6027.7	.70	4.94	.0066	.0066	.0063	-.0002	-.0123	-.0145	.0010												
12945	.300	6024.3	3.79	5.19	.0808	.0106	.0529	-.0018	-.0132	-.0159	.0013												
12946	.300	6011.0	7.93	4.99	.1549	.0275	.1324	-.0038	-.0123	-.0160	.0012												
12947	.301	6044.6	11.71	5.35	.2402	.0542	.2362	-.0057	-.0122	-.0167	.0013												
12948	.301	6029.7	15.72	4.97	.3363	.1030	.3394	-.0073	-.0109	-.0161	.0023												
12949	.300	6017.2	19.83	5.32	.4692	.1687	.4148	-.0100	-.0102	-.0165	.0044												
12950	.300	6001.7	23.64	5.16	.5531	.2372	.5029	-.0112	-.0089	-.0164	.0067												
12951	.300	6029.2	27.49	5.53	.6185	.3125	.5929	-.0120	-.0110	-.0219	.0079												
12952	.301	6031.8	.71	4.85	.0082	.0071	.0071	-.0002	-.0128	-.0150	.0010												

TEST	24			RUN	93																
TP		MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2									
NUM		NUMB	PA	DEG	DEG																
12942	.301	6039.8	.65	5.18	.0061	.0061	.0056	.0000	-.0129	-.0153	.0003										
12943	.301	6038.4	-2.25	4.91	-.0339	.0063	-.0307	.0007	-.0105	-.0123	.0003										
12944	.300	6027.7	.70	4.94	.0064	.0065	.0063	-.0000	-.0123	-.0145	.0002										
12945	.300	6024.3	3.79	5.19	.0614	.0065	.0529	-.0009	-.0133	-.0159	.0003										
12946	.300	6011.0	7.93	4.99	.1372	.0058	.1324	-.0021	-.0127	-.0160	.0003										
12947	.301	6044.6	11.71	5.35	.2462	.0043	.2062	-.0031	-.0131	-.0167	.0003										
12948	.301	6029.7	15.72	4.97	.3710	.0025	.2094	-.0041	-.0125	-.0161	.0006										
12949	.300	6017.2	19.83	5.32	.4986	-.0003	.4148	-.0060	-.0130	-.0165	.0011										
12950	.300	6001.7	23.64	5.16	.6018	-.0045	.5029	-.0067	-.0126	-.0164	.0016										
12951	.300	6029.2	27.49	5.53	.6929	-.0083	.5929	-.0056	-.0153	-.0219	.0018										
12952	.301	6031.8	.71	4.85	.0083	.0070	.0071	-.0000	-.0128	-.0150	.0003										

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH	Q PA	RUN ALPHA DEG	94 BETA DEG	CL	CD	CNS	CRNS	CYNS	CYS	CDC
NUM	NUMB	PA	DEG	DEG							
12953	.301	6031.8	.37	-5.04	-.0037	.0154	.0009	-.0006	.0095	.0255	.0078
12954	.301	6030.1	-2.25	-5.25	-.1062	.0198	.0026	-.0019	.0090	.0276	.0074
12955	.301	6039.3	.57	-4.81	.0042	.0160	.0008	-.0032	.0094	.0258	.0078
12956	.301	6032.2	4.05	-4.92	.2049	.0274	.0048	.0030	.0095	.0262	.0074
12958	.300	6019.8	8.13	-4.85	.3055	.0807	.0118	.0084	.0098	.0288	.0072
12959	.301	6030.1	12.06	-5.14	.7659	.1673	.0299	.0090	.0100	.0276	.0074
12960	.300	6009.6	15.90	-5.01	1.0635	.2961	.0553	.0140	.0067	.0230	.0076
12961	.301	6035.2	19.95	-5.09	1.3933	.4847	.0762	.0229	.0019	.0182	.0077
12962	.300	5999.1	23.75	-5.11	1.5405	.6659	.1299	.0167	.0103	.0037	.0082
12963	.299	5970.0	27.96	-5.12	1.6734	.8733	.1891	.0026	.0375	-.0253	.0107
12964	.301	6032.0	.53	-5.00	.0092	.0172	.0006	-.0002	.0098	.0263	.0079

TEST TP	24 MACH	Q PA	RUN ALPHA DEG	94 BETA DEG	CN	CA	CN	CRN	CYN	CY	
NUM	NUMB	PA	DEG	DEG							
12953	.301	6031.8	.37	-5.04	-.0036	.0154	.0008	-.0007	.0095	.0255	
12954	.301	6030.1	-2.25	-5.25	-.1069	.0154	.0026	-.0036	.0091	.0276	
12955	.301	6039.3	.57	-4.81	.0044	.0160	.0008	-.0003	.0094	.0258	
12956	.301	6032.2	4.05	-4.92	.2064	.0129	.0048	.0043	.0098	.0262	
12958	.300	6019.8	8.13	-4.85	.3116	.0804	.0116	.0069	.0109	.0288	
12959	.301	6030.1	12.06	-5.14	.7839	.0025	.0299	.0067	.0117	.0276	
12960	.300	6009.6	15.90	-5.01	1.0847	-.0012	.0553	.0135	.0108	.0230	
12961	.301	6035.2	19.95	-5.09	1.4375	-.0061	.0762	.0209	.0096	.0182	
12962	.300	5999.1	23.75	-5.11	1.6782	-.0109	.1299	.0112	.0162	.0037	
12963	.299	5970.0	27.96	-5.12	1.8874	-.0132	.1891	-.0153	.0343	-.0253	
12964	.301	6032.0	.53	-5.00	.0093	.0171	.0006	-.0003	.0098	.0263	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH	Q PA	RUN ALPHA DEG	94 BETA DEG	CL2	CD2	CNS2	CRNS2	CYNS2	CYS2	CDC2
NUM	NUMB	PA	DEG	DEG							
12953	.301	6031.8	.44	-5.04	-.0012	.0065	-.0015	.0002	.0126	.0151	.0010
12954	.301	6030.1	-2.19	-5.28	-.0292	.0071	-.0265	-.0007	.0121	.0146	.0011
12955	.301	6039.3	.63	-4.80	.0007	.0068	.0002	.0003	.0126	.0152	.0010
12956	.301	6032.2	4.11	-4.86	.0592	.0103	.0312	.0021	.0122	.0151	.0011
12958	.300	6019.8	8.20	-4.75	.1342	.0279	.1318	.0043	.0123	.0165	.0013
12959	.301	6030.1	12.13	-4.99	.2458	.0566	.2115	.0063	.0120	.0171	.0014
12960	.300	6009.6	15.96	-4.81	.3472	.1010	.3021	.0079	.0102	.0153	.0025
12961	.301	6035.2	20.01	-4.84	.4596	.1662	.4071	.0098	.0085	.0140	.0049
12962	.300	5999.1	23.81	-4.81	.5499	.2378	.5015	.0113	.0080	.0147	.0067
12963	.299	5970.0	28.02	-4.77	.6226	.3228	.6016	.0110	.0101	.0202	.0078
12964	.301	6032.0	.60	-4.99	.0024	.0065	.0018	.0003	.0130	.0157	.0010

TEST TP	24 MACH	Q PA	RUN ALPHA DEG	94 BETA DEG	CN2	CA2	CN2	CRN2	CYN2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG							
12953	.301	6031.8	.44	-5.04	-.0012	.0065	-.0015	.0001	.0126	.0151	.0003
12954	.301	6030.1	-2.19	-5.28	-.0294	.0059	-.0265	-.0003	.0121	.0146	.0003
12955	.301	6039.3	.63	-4.80	.0008	.0068	.0002	.0001	.0126	.0152	.0002
12956	.301	6032.2	4.11	-4.86	.0597	.0061	.0312	.0013	.0124	.0151	.0003
12958	.300	6019.8	8.20	-4.75	.1586	.0057	.1318	.0025	.0128	.0165	.0003
12959	.301	6030.1	12.13	-4.99	.2323	.0037	.2115	.0036	.0131	.0171	.0003
12960	.300	6009.6	15.96	-4.81	.3616	.0016	.3021	.0048	.0120	.0153	.0005
12961	.301	6035.2	20.01	-4.84	.4887	-.0011	.4071	.0065	.0114	.0140	.0011
12962	.300	5999.1	23.81	-4.81	.5991	-.0044	.5015	.0071	.0119	.0147	.0017
12963	.299	5970.0	28.02	-4.77	.7009	-.0082	.6016	.0050	.0141	.0202	.0019
12964	.301	6032.0	.60	-4.99	.0025	.0064	.0018	.0002	.0130	.0157	.0003



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	MACH NUMB	Q PA	RUN ALPHA DEG	95 BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
12978	.301	6069.4	.70	4.87	4.87	.0263	.0156	.0009	-.0090	.0232	-.0742	.0075
12979	.301	6055.4	-2.10	5.07	-1.162	.0210	.0210	-.0020	-.0053	.0184	-.0597	.0067
12980	.301	6058.7	.85	4.86	.0328	.0145	.0010	-.0088	.0218	-.0689	.0073	.0073
12981	.301	6054.9	3.93	4.95	.2171	.0266	.0037	-.0115	.0230	-.0696	.0075	.0075
12982	.302	6118.3	7.94	4.82	.4920	.0750	.0096	-.0113	.0220	-.0683	.0076	.0076
12983	.301	6062.6	11.74	5.05	.7761	.1649	.0278	-.0099	.0240	-.0745	.0078	.0078
12984	.300	6043.9	15.78	5.05	1.0558	.2953	.0498	-.0155	.0273	-.0767	.0077	.0077
12985	.300	6053.2	19.91	5.02	1.3652	.4660	.0724	-.0187	.0303	-.0742	.0079	.0079
12986	.299	5986.8	23.72	4.84	1.5620	.6722	.1226	-.0102	.0196	-.0587	.0076	.0076
12987	.301	6057.8	27.74	5.05	1.6678	.8609	.1855	-.0019	-.0305	.0034	.0106	.0106
12988	.301	6055.8	31.63	4.88	1.6844	1.0177	.2092	.0031	-.0903	.0395	.0136	.0136
12989	.300	6050.8	35.60	4.77	1.6767	1.1751	.2555	-.0214	-.0705	.0201	.0136	.0136
12990	.300	6029.8	39.79	5.14	1.6670	1.3593	.3246	-.0404	-.0641	-.0074	.0143	.0143
12991	.301	6060.6	.81	4.86	.0391	.0186	.0021	-.0095	.0230	-.0695	.0075	.0075

TEST TP	24	MACH NUMB	Q PA	RUN ALPHA DEG	95 BETA DEG	CM	CA	CH	CRM	CYM	CY
12978	.301	6069.4	.70	4.87	4.87	.0263	.0154	.0009	-.0093	.0230	-.0742
12979	.301	6055.4	-2.10	5.07	-1.169	.0167	.0167	-.0020	-.0046	.0186	-.0597
12980	.301	6058.7	.85	4.86	.0330	.0140	.0010	-.0092	.0216	-.0689	.0073
12981	.301	6054.9	3.93	4.95	.2184	.0116	.0037	-.0130	.0222	-.0696	.0075
12982	.302	6118.3	7.94	4.82	.4976	.0063	.0096	-.0142	.0203	-.0683	.0076
12983	.301	6062.6	11.74	5.05	.7934	.0036	.0278	-.0146	.0215	-.0745	.0078
12984	.300	6043.9	15.78	5.05	1.0963	-.0030	.0498	-.0223	.0221	-.0767	.0077
12985	.300	6053.2	19.91	5.02	1.4491	-.0080	.0724	-.0279	.0221	-.0742	.0079
12986	.299	5986.8	23.72	4.84	1.7005	-.0129	.1226	-.0172	.0138	-.0587	.0076
12987	.301	6057.8	27.74	5.05	1.8769	-.0142	.1855	.0125	-.0279	.0034	.0106
12988	.301	6055.8	31.63	4.88	1.9679	-.0168	.2092	.0500	-.0753	.0395	.0136
12989	.300	6050.8	35.60	4.77	2.0474	-.0206	.2855	.0237	-.0698	.0201	.0136
12990	.300	6029.8	39.79	5.14	2.1508	-.0223	.3246	.0100	-.0751	-.0074	.0143
12991	.301	6060.6	.81	4.86	.0393	.0180	.0021	-.0098	.0229	-.0695	.0075

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	MACH NUMB	Q PA	RUN ALPHA2 DEG	95 BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDC2
12978	.301	6069.4	.64	4.87	4.87	.0075	.0061	.0071	-.0001	-.0130	-.0155	.0010
12979	.301	6055.4	-2.17	5.04	-1.0295	.0068	-.0268	.0011	-.0113	-.0137	.0010	.0010
12980	.301	6058.7	.79	4.87	.0097	.0059	.0092	-.0002	-.0125	-.0149	.0010	.0010
12981	.301	6054.9	3.87	5.00	.0631	.0096	.0550	-.0017	-.0128	-.0157	.0012	.0012
12982	.302	6118.3	7.88	4.92	.1505	.0254	.1287	-.0037	-.0122	-.0162	.0012	.0012
12983	.301	6062.6	11.68	5.20	.2502	.0556	.2152	-.0059	-.0126	-.0177	.0013	.0013
12984	.300	6043.9	15.71	5.25	.3906	.0999	.3047	-.0078	-.0118	-.0178	.0021	.0021
12985	.300	6053.2	19.85	5.27	.4634	.1656	.4100	-.0099	-.0104	-.0172	.0041	.0041
12986	.299	5986.8	23.66	5.14	.5558	.2378	.5062	-.0114	-.0095	-.0177	.0064	.0064
12987	.301	6057.8	27.68	5.40	.6203	.3148	.5970	-.0120	-.0117	-.0238	.0076	.0076
12988	.301	6055.8	31.57	5.27	.6302	.3728	.6457	-.0107	-.0208	-.0404	.0088	.0088
12989	.300	6050.8	35.55	5.20	.6601	.4512	.7181	-.0149	-.0242	-.0491	.0096	.0096
12990	.300	6029.8	39.73	5.62	.6707	.5298	.7817	-.0217	-.0296	-.0639	.0092	.0092
12991	.301	6060.6	.74	4.87	.0105	.0063	.0099	-.0002	-.0132	-.0158	.0011	.0011

TEST TP	24	MACH NUMB	Q PA	RUN ALPHA2 DEG	95 BETA2 DEG	CM2	CA2	CH2	CRM2	CYM2	CY2	CDC2
12978	.301	6069.4	.64	4.87	4.87	.0076	.0060	.0071	.0000	-.0130	-.0155	.0002
12979	.301	6055.4	-2.17	5.04	-1.0297	.0057	-.0268	.0007	-.0113	-.0137	.0002	.0002
12980	.301	6058.7	.79	4.87	.0098	.0057	.0092	-.0000	-.0125	-.0149	.0002	.0002
12981	.301	6054.9	3.87	5.00	.0636	.0053	.0550	-.0009	-.0128	-.0157	.0003	.0003
12982	.302	6118.3	7.88	4.92	.1525	.0045	.1287	-.0019	-.0126	-.0162	.0003	.0003
12983	.301	6062.6	11.68	5.20	.2563	.0038	.2152	-.0032	-.0136	-.0177	.0003	.0003
12984	.300	6043.9	15.71	5.25	.3646	.0012	.3047	-.0043	-.0135	-.0178	.0005	.0005
12985	.300	6053.2	19.85	5.27	.4921	-.0016	.4100	-.0056	-.0131	-.0172	.0010	.0010
12986	.299	5986.8	23.66	5.14	.6045	-.0053	.5062	-.0066	-.0132	-.0177	.0015	.0015
12987	.301	6057.8	27.68	5.40	.6935	-.0094	.5970	-.0052	-.0140	-.0238	.0017	.0017
12988	.301	6055.8	31.57	5.27	.7321	-.0123	.6457	.0018	-.0233	-.0404	.0020	.0020
12989	.300	6050.8	35.55	5.20	.7994	-.0166	.7181	.0019	-.0283	-.0491	.0021	.0021
12990	.300	6029.8	39.73	5.62	.8545	-.0213	.7817	.0022	-.0366	-.0639	.0020	.0020
12991	.301	6060.6	.74	4.87	.0106	.0062	.0099	-.0001	-.0132	-.0158	.0003	.0003

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN	96							
TP				ALPHA	BETA	CL	CO	CMS	CRMS	CYMS	CYS	CDC
NUM		NUMB	PA	DEG	DEG							
12992	.301	6058.3	.40	-5.08	-5.08	-.0025	.0188	-.0002	.0094	-.0298	.0796	.0075
12993	.301	6055.9	-2.01	-5.06	-.0930	.0200	.0003	.0063	-.0240	.0683	.0068	.0068
12994	.301	6075.5	.50	-5.06	-.0002	.0156	-.0011	.0089	-.0286	.0773	.0074	.0074
12995	.301	6078.9	3.82	-4.91	.1921	.0259	.0026	.0117	-.0279	.0745	.0075	.0075
12996	.301	6079.4	8.00	-4.85	.4967	.0779	.0094	.0122	-.0282	.0778	.0077	.0077
12997	.300	6052.8	12.05	-5.01	.7737	.1682	.0278	.0102	-.0281	.0752	.0079	.0079
12998	.300	6049.8	15.93	-5.08	1.0732	.3055	.0544	.0164	-.0343	.0758	.0083	.0083
12999	.299	6002.7	19.97	-4.89	1.3750	.4933	.0755	.0205	-.0344	.0626	.0083	.0083
13000	.301	6064.0	23.72	-5.01	1.5957	.6721	.1273	.0117	-.0227	.0436	.0082	.0082
13001	.301	6060.2	27.89	-4.84	1.6908	.8771	.1898	.0028	.0232	-.0166	.0099	.0099
13002	.300	6052.8	31.62	-4.67	1.6797	1.0142	.2133	-.0012	.0927	-.0629	.0141	.0141
13003	.300	6023.4	35.71	-5.04	1.6522	1.1615	.2921	.0260	.0789	-.0412	.0144	.0144
13004	.300	6039.1	39.87	-4.82	1.6705	1.3841	.3194	.0397	.0630	-.0242	.0138	.0138
13005	.301	6057.7	.41	-4.89	-.0003	.0172	-.0004	.0092	-.0277	.0750	.0073	.0073

TEST	24	MACH	Q	RUN	96							
TP				ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM		NUMB	PA	DEG	DEG							
12992	.301	6058.3	.40	-5.08	-.0024	.0189	-.0002	.0096	-.0298	.0796		
12993	.301	6055.9	-2.01	-5.06	-.0937	.0167	.0003	.0054	-.0242	.0683		
12994	.301	6075.5	.50	-5.06	-.0000	.0156	-.0011	.0092	-.0285	.0773		
12995	.301	6078.9	3.82	-4.91	.1934	.0131	.0026	.0136	-.0270	.0745		
12996	.301	6079.4	8.00	-4.85	.5027	.0080	.0094	.0161	-.0263	.0778		
12997	.300	6052.8	12.05	-5.01	.7913	.0029	.0278	.0158	-.0254	.0752		
12998	.300	6049.8	15.93	-5.08	1.1159	-.0008	.0544	.0252	-.0285	.0758		
12999	.299	6002.7	19.97	-4.89	1.4608	-.0060	.0755	.0310	-.0254	.0626		
13000	.301	6064.0	23.72	-5.01	1.6947	-.0106	.1273	.0199	-.0161	.0436		
13001	.301	6060.2	27.89	-4.84	1.9047	-.0157	.1898	-.0084	.0219	-.0166		
13002	.300	6052.8	31.62	-4.67	1.9621	-.0170	.2133	-.0496	.0783	-.0629		
13003	.300	6023.4	35.71	-5.04	2.0195	-.0214	.2821	-.0249	.0793	-.0412		
13004	.300	6039.1	39.87	-4.82	2.1566	-.0239	.3194	-.0099	.0738	-.0242		
13005	.301	6057.7	.41	-4.89	-.0002	.0172	-.0004	.0094	-.0277	.0750		

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN	96							
TP				ALPHA2	BETA2	CL2	CO2	CMS2	CRMS2	CYMS2	CYS2	CDC2
NUM		NUMB	PA	DEG	DEG							
12992	.301	6058.3	.47	-5.07	-.0014	.0063	.0014	.0002	.0130	.0151	.0011	.0011
12993	.301	6055.9	-1.94	-5.09	-.0232	.0067	-.0208	-.0006	.0111	.0130	.0010	.0010
12994	.301	6075.5	.57	-5.05	.0020	.0060	.0019	.0002	.0125	.0146	.0011	.0011
12995	.301	6078.9	3.89	-4.86	.0573	.0095	.0504	.0020	.0119	.0142	.0011	.0011
12996	.301	6079.4	8.06	-4.75	.1535	.0267	.1321	.0043	.0123	.0162	.0013	.0013
12997	.300	6052.8	12.12	-4.86	.2498	.0572	.2154	.0062	.0114	.0159	.0012	.0012
12998	.300	6049.8	15.99	-4.87	.3595	.1045	.3134	.0084	.0104	.0152	.0026	.0026
12999	.299	6002.7	20.03	-4.63	.4688	.1694	.4158	.0099	.0082	.0132	.0048	.0048
13000	.301	6064.0	23.78	-4.71	.5564	.2399	.5092	.0114	.0079	.0143	.0065	.0065
13001	.301	6060.2	27.94	-4.49	.6288	.3234	.6044	.0102	.0088	.0174	.0076	.0076
13002	.300	6052.8	31.67	-4.28	.6316	.3746	.6487	.0093	.0189	.0356	.0091	.0091
13003	.300	6023.4	35.76	-4.61	.6527	.4488	.7129	.0145	.0243	.0486	.0094	.0094
13004	.300	6039.1	39.91	-4.34	.6690	.5320	.7813	.0169	.0230	.0502	.0092	.0092
13005	.301	6057.7	.47	-4.89	.0021	.0060	.0018	.0002	.0124	.0145	.0010	.0010

TEST	24	MACH	Q	RUN	96							
TP				ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM		NUMB	PA	DEG	DEG							
12992	.301	6058.3	.47	-5.07	-.0015	.0063	.0014	.0001	.0130	.0151	.0003	.0003
12993	.301	6055.9	-1.94	-5.09	-.0234	.0059	-.0208	-.0002	.0111	.0130	.0003	.0003
12994	.301	6075.5	.57	-5.05	.0021	.0060	.0019	.0001	.0125	.0146	.0003	.0003
12995	.301	6078.9	3.89	-4.86	.0578	.0056	.0504	.0012	.0120	.0142	.0003	.0003
12996	.301	6079.4	8.06	-4.75	.1557	.0049	.1321	.0025	.0128	.0162	.0003	.0003
12997	.300	6052.8	12.12	-4.86	.2562	.0035	.2154	.0036	.0125	.0159	.0003	.0003
12998	.300	6049.8	15.99	-4.87	.3744	.0014	.3134	.0052	.0123	.0152	.0005	.0005
12999	.299	6002.7	20.03	-4.63	.4985	-.0015	.4158	.0065	.0111	.0132	.0011	.0011
13000	.301	6064.0	23.78	-4.71	.6059	-.0048	.5092	.0073	.0118	.0143	.0016	.0016
13001	.301	6060.2	27.94	-4.49	.7070	-.0090	.6044	.0049	.0125	.0174	.0018	.0018
13002	.300	6052.8	31.67	-4.28	.7342	-.0128	.6487	-.0020	.0209	.0356	.0021	.0021
13003	.300	6023.4	35.76	-4.61	.7919	-.0173	.7129	-.0025	.0282	.0486	.0021	.0021
13004	.300	6039.1	39.91	-4.34	.8545	-.0212	.7813	-.0018	.0285	.0502	.0021	.0021
13005	.301	6057.7	.47	-4.89	.0021	.0059	.0018	.0001	.0124	.0145	.0003	.0003

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	97 BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
13017	.301	6081.6	-4.41	-0.00	-.0222	.0185	.0010	.0004	-.0018	.0022	.0057
13018	.300	6059.6	-3.98	-.01	-.1963	.0325	-.0023	.0001	-.0018	.0041	.0057
13019	.301	6067.9	-2.08	-.00	-.0934	.0221	-.0002	.0004	-.0020	.0037	.0057
13020	.301	6070.0	-.62	-.00	-.0135	.0184	.0004	.0002	-.0021	.0028	.0057
13021	.301	6081.1	1.84	.00	.0901	.0186	.0011	.0006	-.0018	.0015	.0056
13022	.301	6071.8	4.08	.01	.2466	.0316	.0053	.0005	-.0017	.0012	.0058
13023	.301	6060.5	5.89	.01	.3642	.0493	.0090	.0004	-.0018	-.0002	.0060
13024	.300	6053.1	8.08	.02	.5185	.0825	.0150	.0007	-.0016	-.0017	.0064
13025	.300	6027.8	10.05	.02	.6461	.1214	.0292	.0002	-.0016	-.0018	.0068
13026	.301	6078.4	11.94	.01	.7714	.1679	.0413	-.0009	-.0013	-.0031	.0069
13027	.300	6035.6	13.95	.01	.9403	.2345	.0479	.0002	-.0012	-.0042	.0067
13028	.300	6022.3	15.86	.02	1.0587	.2993	.0611	.0006	-.0011	-.0057	.0067
13029	.301	6058.3	17.85	-.01	1.2297	.3933	.0742	.0001	-.0011	-.0068	.0075
13030	.300	6045.1	19.81	-.00	1.3931	.4967	.0810	.0007	-.0007	-.0093	.0068
13031	.299	6015.5	21.86	.02	1.5533	.6138	.0951	.0019	-.0000	-.0126	.0066
13032	.300	6027.8	23.85	-.04	1.6840	.7303	.1087	.0018	-.0004	-.0135	.0069
13033	.301	6058.8	25.70	.00	1.8123	.8546	.1308	-.0022	.0022	-.0153	.0074
13034	.300	6031.9	27.87	-.04	1.9227	.9942	.1656	-.0044	.0061	-.0190	.0073
13035	.301	6074.8	29.86	-.07	1.8503	1.0391	.2261	-.0138	.0248	-.0274	.0078
13036	.301	6049.4	31.67	-.05	1.7763	1.0755	.2766	.0006	.0000	-.0141	.0085
13037	.300	6033.2	33.46	-.06	1.7515	1.1366	.2897	.0015	-.0024	-.0122	.0090
13038	.300	6022.3	35.75	-.03	1.7549	1.2425	.3114	.0014	-.0031	-.0124	.0100
13039	.300	6040.5	37.88	-.06	1.7435	1.3312	.3295	.0009	.0003	-.0127	.0110
13040	.300	6051.1	39.73	-.04	1.7244	1.4070	.3474	.0017	.0013	-.0173	.0127
13041	.300	6050.5	-.40	.00	-.0210	.0187	.0012	.0002	-.0021	.0053	.0056

TEST TP NUM	24 MACH NUMB	Q PA	RUN ALPHA DEG	97 BETA DEG	CN	CA	CN	CRM	CYN	CY
13017	.301	6081.6	-4.41	-0.00	-.0223	.0184	.0010	.0004	-.0018	.0022
13018	.300	6055.6	-3.98	-.01	-.1980	.0188	-.0023	-.0000	-.0018	.0041
13019	.301	6067.9	-2.08	-.00	-.0941	.0187	-.0002	.0003	-.0020	.0037
13020	.301	6070.0	-.62	-.00	-.0137	.0183	.0004	.0002	-.0021	.0028
13021	.301	6081.1	1.84	.00	.0907	.0157	.0011	.0006	-.0018	.0015
13022	.301	6071.8	4.08	.01	.2482	.0140	.0053	.0006	-.0017	.0012
13023	.301	6060.5	5.89	.01	.3674	.0117	.0090	.0006	-.0017	-.0002
13024	.300	6053.1	8.08	.02	.5249	.0089	.0150	.0009	-.0015	-.0017
13025	.300	6027.8	10.05	.02	.6574	.0068	.0292	.0005	-.0016	-.0018
13026	.301	6078.4	11.94	.01	.7894	.0046	.0413	-.0007	-.0014	-.0031
13027	.300	6035.6	13.95	.01	.9691	.0009	.0479	.0005	-.0011	-.0042
13028	.300	6022.3	15.86	.02	1.1002	-.0015	.0611	.0009	-.0009	-.0057
13029	.301	6058.3	17.85	-.01	1.2911	-.0027	.0742	.0004	-.0010	-.0068
13030	.300	6045.1	19.81	-.00	1.4789	-.0049	.0810	.0009	-.0004	-.0093
13031	.299	6015.5	21.86	.02	1.6702	-.0086	.0951	.0018	.0007	-.0126
13032	.300	6027.8	23.85	-.04	1.8135	-.0129	.1087	.0018	.0004	-.0135
13033	.301	6058.8	25.70	.00	2.0036	-.0158	.1308	-.0029	.0010	-.0153
13034	.300	6031.9	27.87	-.04	2.1644	-.0198	.1656	-.0067	.0033	-.0190
13035	.301	6074.8	29.86	-.07	2.1220	-.0202	.2261	-.0243	.0146	-.0274
13036	.301	6049.4	31.67	-.05	2.0764	-.0172	.2766	.0005	.0003	-.0141
13037	.300	6033.2	33.46	-.06	2.0879	-.0174	.2897	.0025	-.0011	-.0122
13038	.300	6022.3	35.75	-.03	2.1502	-.0168	.3114	.0030	-.0017	-.0124
13039	.300	6040.5	37.88	-.06	2.1935	-.0197	.3295	.0005	.0008	-.0127
13040	.300	6051.1	39.73	-.04	2.2255	-.0200	.3474	.0004	.0021	-.0173
13041	.300	6050.5	-.40	.00	-.0212	.0185	.0012	.0002	-.0021	.0053

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 MACH NUM	Q PA	RUN ALPHA2 DEG	97 BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CY52	CDB2
13017	.301	6081.6	-4.1	-.01	-.0032	.0064	-.0039	.0000	.0004	.0008	-.0010
13018	.300	6055.6	-3.98	-.06	-.0543	.0108	-.0480	.0001	.0007	.0014	-.0004
13019	.301	6067.9	-2.08	-.03	-.0219	.0078	-.0206	.0001	.0006	.0011	-.0004
13020	.301	6070.0	-.62	-.01	-.0013	.0070	-.0022	.0000	.0005	.0010	.0008
13021	.301	6081.1	1.84	.03	.0277	.0070	.0238	.0001	.0004	.0007	.0015
13022	.301	6071.8	4.08	.06	.0768	.0119	.0644	.0002	.0003	.0006	.0026
13023	.301	6060.5	5.89	.09	.1151	.0182	.0964	.0002	.0001	.0001	.0039
13024	.300	6053.1	8.07	.12	.1664	.0293	.1398	.0003	.0001	.0002	.0057
13025	.300	6027.8	10.05	.15	.2139	.0431	.1807	.0002	-.0001	-.0002	.0076
13026	.301	6078.4	11.94	.16	.2593	.0594	.2209	.0002	-.0002	-.0005	.0096
13027	.300	6035.6	13.95	.18	.3131	.0821	.2684	.0002	-.0003	-.0006	.0124
13028	.300	6022.3	15.86	.22	.3585	.1049	.3097	.0002	-.0003	-.0007	.0149
13029	.301	6058.3	17.85	.22	.4208	.1380	.3668	.0001	-.0007	-.0016	.0186
13030	.300	6045.1	19.81	.25	.4776	.1728	.4197	.0000	-.0008	-.0019	.0220
13031	.299	6015.5	21.86	.30	.5351	.2138	.4761	-.0001	-.0010	-.0023	.0256
13032	.300	6027.8	23.85	.26	.5829	.2554	.5253	-.0002	-.0010	-.0026	.0292
13033	.301	6058.8	25.70	.32	.6353	.3019	.5813	-.0003	-.0010	-.0025	.0330
13034	.300	6031.9	27.86	.31	.6885	.3573	.6416	-.0003	-.0008	-.0026	.0363
13035	.301	6074.8	29.86	.30	.6989	.3911	.6720	-.0013	.0014	.0012	.0361
13036	.301	6089.4	31.67	.34	.7004	.4198	.7009	-.0005	-.0009	-.0024	.0356
13037	.300	6033.2	33.46	.36	.8665	.4453	.7178	-.0005	-.0014	-.0032	.0372
13038	.300	6022.5	35.75	.40	.7066	.4903	.7568	-.0007	-.0016	-.0038	.0403
13039	.300	6040.5	37.87	.40	.7093	.5286	.7846	-.0007	-.0010	-.0026	.0422
13040	.300	6051.1	39.72	.44	.7083	.5615	.8100	-.0011	-.0016	-.0037	.0444
13041	.300	6050.5	-.40	-.00	-.0028	.0062	-.0036	.0001	.0007	.0012	.0011

TEST TP	24 MACH NUM	Q PA	RUN ALPHA2 DEG	97 BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
13017	.301	6081.6	-4.1	-.01	-.0032	.0064	-.0039	.0000	.0004	.0008	-.0003
13018	.300	6055.6	-3.98	-.06	-.0549	.0070	-.0480	.0002	.0007	.0014	-.0001
13019	.301	6067.9	-2.08	-.03	-.0221	.0070	-.0206	.0001	.0006	.0011	-.0001
13020	.301	6070.0	-.62	-.01	-.0014	.0070	-.0022	.0000	.0005	.0010	.0002
13021	.301	6081.1	1.84	.03	.0279	.0061	.0238	.0001	.0004	.0007	.0004
13022	.301	6071.8	4.08	.06	.0775	.0064	.0644	.0002	.0003	.0006	.0007
13023	.301	6060.5	5.89	.09	.1164	.0063	.0964	.0002	.0001	.0001	.0010
13024	.300	6053.1	8.07	.12	.1688	.0057	.1398	.0002	.0001	.0002	.0015
13025	.300	6027.8	10.05	.15	.2181	.0052	.1807	.0002	-.0001	-.0002	.0019
13026	.301	6078.4	11.94	.16	.2659	.0044	.2209	.0002	-.0001	-.0005	.0025
13027	.300	6035.6	13.95	.18	.3237	.0042	.2684	.0003	-.0002	-.0006	.0032
13028	.300	6022.3	15.86	.22	.3735	.0029	.3097	.0003	-.0003	-.0007	.0038
13029	.301	6058.3	17.85	.22	.4428	.0023	.3668	.0003	-.0006	-.0016	.0048
13030	.300	6045.1	19.81	.25	.5079	.0007	.4197	.0003	-.0007	-.0019	.0057
13031	.299	6015.5	21.86	.30	.5762	-.0008	.4761	.0003	-.0010	-.0023	.0066
13032	.300	6027.8	23.85	.26	.6364	-.0021	.5253	.0002	-.0010	-.0026	.0075
13033	.301	6058.8	25.70	.32	.7034	-.0034	.5813	.0002	-.0010	-.0025	.0085
13034	.300	6031.9	27.86	.31	.7757	-.0060	.6416	.0001	-.0009	-.0026	.0094
13035	.301	6074.8	29.86	.30	.8009	-.0088	.6720	-.0018	.0003	.0012	.0093
13036	.301	6089.4	31.67	.34	.8165	-.0104	.7009	.0001	-.0010	-.0024	.0092
13037	.300	6033.2	33.46	.36	.8265	-.0125	.7178	.0003	-.0014	-.0032	.0096
13038	.300	6022.5	35.75	.40	.8599	-.0149	.7568	.0003	-.0017	-.0038	.0104
13039	.300	6040.5	37.87	.40	.8844	-.0182	.7846	.0000	-.0013	-.0026	.0109
13040	.300	6051.1	39.72	.44	.9036	-.0208	.8100	.0002	-.0020	-.0037	.0115
13041	.300	6050.5	-.40	-.00	-.0027	.0061	-.0036	.0001	.0007	.0012	.0003

## NASA LANGLEY

## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMS	Q PA	RUN 101 ALPHA DEG	SEYA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
13163	.300	6049.8	-4.42	-0.00	-0.0208	.0176	.0021	.0001	-.0023	.0049	.0057
13164	.300	6040.0	-4.11	.01	-.2199	.0329	.0156	.0002	-.0023	.0084	.0058
13165	.300	6039.9	-1.83	.00	-.0895	.0208	.0071	.0004	-.0025	.0084	.0057
13166	.300	6044.0	-.63	-.00	-.0127	.0191	.0012	.0002	-.0025	.0078	.0056
13167	.301	6067.8	2.02	-.01	.1045	.0197	-.0078	.0003	-.0024	.0072	.0056
13168	.301	6067.8	3.83	-.01	.2276	.0299	-.0157	.0005	-.0023	.0081	.0058
13169	.301	6054.7	5.96	-.01	.3610	.0491	-.0236	.0005	-.0026	.0072	.0061
13170	.300	6025.7	8.04	-.02	.4762	.0754	-.0299	.0002	-.0022	.0057	.0063
13171	.299	6003.1	9.77	-.01	.6001	.1099	-.0334	-.0004	-.0022	.0046	.0068
13172	.301	6059.0	11.87	-.02	.7401	.1601	-.0364	.0000	-.0021	.0035	.0069
13173	.299	6007.6	13.82	-.04	.8788	.2179	-.0418	.0009	-.0025	.0032	.0071
13174	.300	6039.6	15.81	-.02	1.0329	.2916	-.0534	.0002	-.0021	.0014	.0077
13175	.298	5976.7	17.91	-.04	1.1717	.3739	-.0674	-.0019	-.0008	-.0005	.0078
13176	.301	6061.9	19.91	-.03	1.2914	.4593	-.0858	.0017	-.0021	-.0020	.0080
13177	.299	5995.3	21.78	-.39	1.3743	.5384	-.0998	.0019	-.0027	.0028	.0082
13178	.300	6029.6	23.73	-.01	1.4100	.6080	-.0076	.0038	-.0042	-.0030	.0084
13179	.300	6023.7	25.81	-.03	1.4493	.6910	.0075	.0037	-.0101	.0049	.0087
13180	.300	6042.7	27.81	-.09	1.4577	.7574	.0273	.0019	-.0044	.0016	.0091
13181	.300	6030.1	29.83	-.12	1.4851	.8335	.0444	.0015	-.0024	-.0004	.0096
13182	.300	6035.2	31.58	-.11	1.4789	.8981	.0594	.0008	-.0020	-.0043	.0104
13183	.300	6038.5	33.65	-.13	1.4722	.9759	.0667	.0004	-.0011	-.0070	.0113
13184	.299	6005.5	35.78	-.03	1.4754	1.0497	.0766	-.0000	-.0013	-.0069	.0126
13185	.300	6041.6	37.89	-.10	1.4704	1.1281	.0868	-.0003	.0013	-.0097	.0141
13186	.301	6056.9	39.67	.01	1.4544	1.1871	.0947	-.0010	-.0016	-.0105	.0151
13187	.299	6008.2	41.74	.02	1.4466	1.2497	.1081	-.0023	-.0047	-.0076	.0168
13188	.302	6116.9	43.78	-.13	1.4237	1.3395	.1251	-.0043	-.0076	-.0055	.0184
13189	.300	6015.7	45.59	.13	1.3946	1.3950	.1376	-.0067	-.0093	-.0044	.0197
13190	.299	5977.4	47.46	.09	1.3626	1.4512	.1522	-.0079	-.0092	-.0020	.0208
13191	.300	6030.2	-4.41	-.01	-.0161	.0192	.0024	-.0000	-.0024	.0115	.0056
TEST TP NUM	24 MACH NUMS	Q PA	RUN 101 ALPHA DEG	SEYA DEG	CN	CA	CM	CRM	CYM	CY	
13163	.300	6049.8	-4.42	-0.00	-.0210	.0174	.0021	.0000	-.0023	.0049	
13164	.300	6040.0	-4.11	.01	-.2217	.0170	.0156	-.0000	-.0023	.0084	
13165	.300	6039.9	-1.83	.00	-.0902	.0179	.0071	.0003	-.0025	.0084	
13166	.300	6044.0	-.63	-.00	-.0129	.0190	.0012	.0002	-.0025	.0078	
13167	.301	6067.8	2.02	-.01	.1051	.0160	-.0078	.0004	-.0024	.0072	
13168	.301	6067.8	3.83	-.01	.2291	.0146	-.0157	.0007	-.0022	.0051	
13169	.301	6054.7	5.96	-.01	.3641	.0113	-.0236	.0009	-.0025	.0072	
13170	.300	6025.7	8.04	-.02	.4820	.0080	-.0299	.0005	-.0021	.0057	
13171	.299	6003.1	9.77	-.01	.6100	.0063	-.0334	-.0000	-.0023	.0046	
13172	.301	6059.0	11.87	-.02	.7573	.0044	-.0364	.0003	-.0021	.0035	
13173	.299	6007.6	13.82	-.04	.9054	.0016	-.0418	.0014	-.0022	.0032	
13174	.300	6039.6	15.83	-.02	1.0733	-.0012	-.0534	.0007	-.0020	.0014	
13175	.298	5976.7	17.91	-.04	1.2300	-.0045	-.0674	-.0015	-.0013	-.0005	
13176	.301	6061.9	19.91	-.03	1.3706	-.0079	-.0858	.0023	-.0014	-.0020	
13177	.299	5995.3	21.78	-.39	1.4760	-.0099	-.0998	.0027	-.0018	.0028	
13178	.300	6029.6	23.73	-.01	1.5354	-.0107	-.0076	.0052	-.0023	-.0030	
13179	.300	6023.7	25.81	-.03	1.6056	-.0091	.0075	.0095	-.0066	.0049	
13180	.300	6042.7	27.81	-.09	1.6427	-.0101	.0273	.0038	-.0030	.0016	
13181	.300	6030.1	29.83	-.12	1.7030	-.0098	.0444	.0025	-.0014	-.0004	
13182	.300	6035.2	31.58	-.11	1.7302	-.0094	.0554	.0017	-.0012	-.0043	
13183	.300	6038.5	33.65	-.13	1.7662	-.0097	.0667	.0009	-.0007	-.0070	
13184	.299	6005.5	35.78	-.03	1.8106	-.0111	.0766	.0008	-.0011	-.0069	
13185	.300	6041.6	37.89	-.10	1.8533	-.0127	.0868	-.0010	.0008	-.0097	
13186	.301	6056.9	39.67	.01	1.8773	-.0146	.0947	.0003	-.0019	-.0105	
13187	.299	6008.2	41.74	.02	1.9247	-.0158	.1081	.0013	-.0051	-.0076	
13188	.302	6116.9	43.78	-.13	1.9547	-.0179	.1251	.0021	-.0085	-.0055	
13189	.300	6015.7	45.59	.13	1.9726	-.0201	.1376	.0019	-.0113	-.0044	
13190	.299	5977.4	47.46	.09	1.9905	-.0227	.1522	.0014	-.0120	-.0020	
13191	.300	6030.2	-4.41	-.01	-.0163	.0191	.0024	-.0000	-.0024	.0115	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 101								
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CY2	CDS2
NUM		NUM	PA	DEG	DEG							
13163	.300	6049.8	-4.2	-0.01	-0.016	.0050	-.0022	.0000	.0003	.0004	.0011	.0011
13164	.300	6040.0	-4.11	-0.05	-.0190	.0078	-.0378	.0000	.0007	.0011	.0004	.0004
13165	.300	6039.9	-1.83	-0.02	-.0133	.0057	-.0139	.0001	.0005	.0007	.0009	.0009
13166	.300	6044.0	-0.63	-0.01	-.0001	.0059	-.0008	.0000	.0005	.0006	.0011	.0011
13167	.301	6067.8	2.02	.02	.0205	.0061	.0191	.0001	.0005	.0008	.0015	.0015
13168	.301	6067.8	3.83	.04	.0454	.0090	.0416	.0001	.0003	.0009	.0022	.0022
13169	.301	6054.7	5.96	.06	.0741	.0135	.0677	.0001	.0002	.0004	.0034	.0034
13170	.300	6025.7	8.04	.08	.0999	.0192	.0910	.0001	.0000	.0002	.0047	.0047
13171	.299	6003.1	9.77	.11	.1291	.0271	.1176	.0001	-.0001	-.0000	.0062	.0062
13172	.301	6055.0	11.87	.14	.1641	.0389	.1494	.0001	-.0002	-.0000	.0081	.0081
13173	.299	6007.6	13.82	.14	.1958	.0524	.1777	.0001	.0000	.0004	.0100	.0100
13174	.300	6039.8	15.83	.19	.2322	.0692	.2129	.0000	-.0002	.0003	.0124	.0124
13175	.298	5976.7	17.91	.19	.2650	.0978	.2441	.0000	-.0002	.0005	.0150	.0150
13176	.301	6061.9	19.91	.22	.2989	.1096	.2778	-.0000	-.0002	.0003	.0177	.0177
13177	.299	5995.5	21.78	.22	.3352	.1347	.3152	.0003	.0005	.0019	.0205	.0205
13178	.300	6029.6	23.73	.29	.3625	.1589	.3450	-.0002	-.0005	-.0001	.0223	.0223
13179	.300	6023.7	25.81	.30	.3908	.1873	.3801	-.0002	-.0004	.0002	.0240	.0240
13180	.300	6042.7	27.81	.26	.4098	.2123	.4070	-.0001	.0001	.0014	.0251	.0251
13181	.300	6030.1	29.63	.25	.4307	.2392	.4336	.0000	.0004	.0020	.0263	.0263
13182	.300	6035.2	31.58	.28	.4395	.2610	.4621	-.0002	-.0006	-.0003	.0283	.0283
13183	.300	6038.5	33.85	.29	.4462	.2869	.4866	-.0006	-.0014	-.0019	.0288	.0288
13184	.299	6005.5	35.78	.40	.4543	.3121	.5098	-.0010	-.0017	-.0023	.0314	.0314
13185	.300	6041.6	37.89	.36	.4614	.3404	.5334	-.0012	-.0017	-.0029	.0324	.0324
13186	.301	6056.9	39.66	.48	.4629	.3622	.5488	-.0021	-.0029	-.0058	.0331	.0331
13187	.299	6008.2	41.74	.52	.4695	.3928	.5757	-.0029	-.0033	-.0063	.0320	.0320
13188	.302	6116.9	43.78	.39	.4729	.4212	.6009	-.0039	-.0040	-.0078	.0325	.0325
13189	.300	6015.7	45.59	.66	.4725	.4445	.6199	-.0051	-.0046	-.0092	.0324	.0324
13190	.299	5977.4	47.45	.64	.4715	.4691	.6422	-.0059	-.0048	-.0087	.0310	.0310
13191	.300	6030.2	-.41	-.01	-.0006	.0052	-.0014	.0000	.0003	.0005	.0011	.0011

TEST	24			RUN 101								
TP		MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	COC2
NUM		NUM	PA	DEG	DEG							
13163	.300	6049.8	-4.2	-0.01	-0.016	.0050	-.0022	.0000	.0003	.0004	.0011	.0011
13164	.300	6040.0	-4.11	-0.05	-.0190	.0049	-.0378	.0001	.0007	.0011	.0004	.0004
13165	.300	6039.9	-1.83	-0.02	-.0133	.0053	-.0139	.0001	.0005	.0007	.0009	.0009
13166	.300	6044.0	-0.63	-0.01	-.0002	.0059	-.0008	.0000	.0005	.0008	.0011	.0011
13167	.301	6067.8	2.02	.02	.0207	.0054	.0191	.0000	.0005	.0008	.0015	.0015
13168	.301	6067.8	3.83	.04	.0459	.0059	.0416	.0000	.0003	.0005	.0009	.0009
13169	.301	6054.7	5.96	.06	.0751	.0058	.0677	.0001	.0002	.0004	.0034	.0034
13170	.300	6025.7	8.04	.08	.1014	.0050	.0710	.0001	.0000	.0002	.0047	.0047
13171	.299	6003.1	9.77	.11	.1318	.0049	.1176	.0001	-.0001	-.0000	.0062	.0062
13172	.301	6055.0	11.87	.14	.1686	.0043	.1494	.0001	-.0002	-.0000	.0081	.0081
13173	.299	6007.6	13.82	.14	.2036	.0038	.1797	.0001	.0000	.0004	.0025	.0025
13174	.300	6039.8	15.83	.19	.2423	.0032	.2129	.0001	-.0002	.0003	.0032	.0032
13175	.298	5976.7	17.91	.19	.2792	.0020	.2441	.0001	-.0002	.0005	.0038	.0038
13176	.301	6061.9	19.91	.22	.3183	.0013	.2778	.0001	-.0002	.0005	.0045	.0045
13177	.299	5995.5	21.78	.22	.3612	.0007	.3152	.0000	.0006	.0019	.0052	.0052
13178	.300	6029.6	23.73	.29	.3938	-.0004	.3480	.0000	-.0005	-.0001	.0057	.0057
13179	.300	6023.7	25.81	.30	.4334	-.0016	.3901	-.0000	-.0005	.0002	.0061	.0061
13180	.300	6042.7	27.81	.26	.4616	-.0034	.4070	-.0001	.0001	.0014	.0064	.0064
13181	.300	6030.1	29.63	.25	.4926	-.0050	.4386	-.0002	.0004	.0020	.0067	.0067
13182	.300	6035.2	31.58	.28	.5111	-.0078	.4521	.0001	-.0007	-.0003	.0067	.0067
13183	.300	6038.5	33.85	.29	.5304	-.0103	.4666	.0002	-.0015	-.0019	.0074	.0074
13184	.299	6005.5	35.78	.40	.5512	-.0125	.4895	.0002	-.0020	-.0025	.0081	.0081
13185	.300	6041.6	37.89	.36	.5732	-.0147	.5134	.0001	-.0021	-.0029	.0083	.0083
13186	.301	6056.9	39.66	.48	.5875	-.0166	.5488	.0002	-.0036	-.0058	.0085	.0085
13187	.299	6008.2	41.74	.52	.6118	-.0194	.5757	.0000	-.0044	-.0063	.0082	.0082
13188	.302	6116.9	43.78	.39	.6328	-.0230	.6009	-.0000	-.0056	-.0078	.0083	.0083
13189	.300	6015.7	45.59	.66	.6482	-.0265	.6199	-.0003	-.0069	-.0092	.0083	.0083
13190	.299	5977.4	47.45	.64	.6646	-.0302	.6422	-.0005	-.0075	-.0097	.0080	.0080
13191	.300	6030.2	-.41	-.01	-.0007	.0052	-.0014	.0000	.0003	.0005	.0011	.0011

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	MACH NUM	Q PA	RUN 103 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	COC
13229	.300	6032.2	.68	5.05	.0296	.0170	-.0015	-.0097	.0245	-.0786	.0076	
13230	.300	6032.3	-1.99	5.14	-.1093	.0200	.0069	-.0060	.0195	-.0639	.0069	
13232	.301	6047.8	.67	4.98	.0288	.0170	-.0017	-.0097	.0243	-.0779	.0074	
13233	.300	6036.8	3.83	5.11	.2116	.0274	-.0146	-.0109	.0246	-.0764	.0077	
13234	.300	6015.8	7.98	5.12	.4673	.0723	-.0305	-.0087	.0240	-.0763	.0079	
13235	.300	6025.7	11.92	4.83	.7308	.1556	-.0429	-.0072	.0229	-.0730	.0077	
13236	.300	6019.1	15.97	4.86	1.0242	.2847	-.0606	-.0074	.0227	-.0767	.0084	
13237	.299	6007.1	19.87	5.04	1.2216	.4333	-.0500	.0057	.0120	-.0692	.0086	
13238	.299	6008.1	23.96	5.13	1.3793	.6039	-.0365	.0166	-.0219	-.0285	.0104	
13239	.300	6026.2	28.03	5.09	1.3660	.7195	.0231	-.0049	-.0313	.0031	.0125	
13240	.300	6035.6	31.77	5.12	1.3969	.8545	.0457	-.0109	-.0507	.0066	.0140	
13241	.301	6060.7	35.60	5.04	1.4378	1.0132	.0653	-.0204	-.0566	-.0050	.0157	
13242	.301	6050.8	39.54	5.15	1.4370	1.1856	.0900	-.0330	-.0526	-.0138	.0176	
13243	.300	6021.7	.65	5.07	.0298	.0183	-.0006	-.0097	.0246	-.0781	.0076	

TEST TP	24	MACH NUM	Q PA	RUN 103 ALPHA DEG	BETA DEG	CM	CA	CH	CRM	CYM	CY
13229	.300	6032.2	.68	5.05	.0296	.0167	-.0013	-.0100	.0244	-.0786	
13230	.300	6032.3	-1.99	5.14	-.1093	.0162	.0069	-.0053	.0197	-.0639	
13232	.301	6047.8	.67	4.98	.0290	.0167	-.0017	-.0099	.0242	-.0779	
13233	.300	6036.8	3.83	5.11	.2130	.0132	-.0146	-.0126	.0238	-.0764	
13234	.300	6015.8	7.98	5.12	.4728	.0068	-.0305	-.0120	.0228	-.0763	
13235	.300	6025.7	11.92	4.83	.7471	.0013	-.0429	-.0118	.0209	-.0730	
13236	.300	6019.1	15.97	4.86	1.0641	-.0043	-.0606	-.0134	.0198	-.0767	
13237	.299	6007.1	19.87	5.04	1.2961	-.0077	-.0500	.0013	.0132	-.0692	
13238	.299	6008.1	23.96	5.13	1.5020	-.0066	-.0365	.0259	-.0125	-.0285	
13239	.300	6026.2	28.03	5.09	1.5439	-.0067	.0251	.0104	-.0300	.0031	
13240	.300	6035.6	31.77	5.12	1.6375	-.0090	.0457	.0174	-.0488	.0066	
13241	.301	6060.7	35.60	5.04	1.7598	-.0132	.0653	.0164	-.0579	-.0050	
13242	.301	6050.8	39.54	5.15	1.8502	-.0160	.0900	.0080	-.0616	-.0138	
13243	.300	6021.7	.65	5.07	.0300	.0180	-.0006	-.0100	.0247	-.0781	

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	MACH NUM	Q PA	RUN 103 ALPHA DEG	BETA DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	COC2
13229	.300	6032.2	.62	5.06	.0046	.0055	.0043	-.0001	-.0138	-.0165	.0010	
13230	.300	6032.3	-2.05	5.12	-.0173	.0058	-.0179	.0007	-.0116	-.0137	.0009	
13232	.301	6047.8	.60	4.99	.0045	.0057	.0044	-.0001	-.0137	-.0166	.0010	
13233	.300	6036.8	3.76	5.16	.0379	.0078	.0366	-.0012	-.0135	-.0164	.0014	
13234	.300	6015.8	7.91	5.22	.0923	.0173	.0862	-.0026	-.0129	-.0164	.0018	
13235	.300	6025.7	11.86	4.96	.1522	.0356	.1415	-.0038	-.0118	-.0155	.0026	
13236	.300	6019.1	15.91	5.09	.2215	.0653	.2059	-.0053	-.0117	-.0162	.0044	
13237	.299	6007.1	19.81	5.29	.2849	.1031	.2686	-.0070	-.0115	-.0172	.0062	
13238	.299	6008.1	23.90	5.43	.3512	.1536	.3405	-.0088	-.0120	-.0200	.0080	
13239	.300	6026.2	27.97	5.44	.3870	.1994	.3950	-.0093	-.0131	-.0239	.0078	
13240	.300	6035.6	31.71	5.51	.4101	.2429	.4400	-.0106	-.0167	-.0341	.0088	
13241	.301	6060.7	35.55	5.48	.4353	.2954	.4912	-.0142	-.0209	-.0447	.0092	
13242	.301	6050.8	39.49	5.62	.4526	.3512	.5411	-.0181	-.0228	-.0504	.0098	
13243	.300	6021.7	.58	5.07	.0051	.0056	.0051	-.0001	-.0138	-.0167	.0010	

TEST TP	24	MACH NUM	Q PA	RUN 103 ALPHA DEG	BETA DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	COC2
13229	.300	6032.2	.62	5.06	.0046	.0055	.0043	.0000	-.0138	-.0165	.0002	
13230	.300	6032.3	-2.05	5.12	-.0177	.0051	-.0179	.0002	-.0116	-.0137	.0002	
13232	.301	6047.8	.60	4.99	.0046	.0056	.0044	.0000	-.0137	-.0166	.0002	
13233	.300	6036.8	3.76	5.16	.0384	.0053	.0366	-.0003	-.0135	-.0164	.0004	
13234	.300	6015.8	7.91	5.22	.0938	.0044	.0862	-.0008	-.0131	-.0164	.0005	
13235	.300	6025.7	11.86	4.98	.1563	.0036	.1415	-.0012	-.0124	-.0155	.0007	
13236	.300	6019.1	15.91	5.09	.2309	.0021	.2059	-.0019	-.0127	-.0162	.0011	
13237	.299	6007.1	19.81	5.29	.3030	.0005	.2686	-.0027	-.0132	-.0172	.0015	
13238	.299	6008.1	23.90	5.43	.3833	-.0014	.3405	-.0032	-.0146	-.0200	.0019	
13239	.300	6026.2	27.97	5.44	.4353	-.0054	.3950	-.0020	-.0159	-.0239	.0018	
13240	.300	6035.6	31.71	5.51	.4765	-.0069	.4400	-.0002	-.0198	-.0341	.0020	
13241	.301	6060.7	35.55	5.48	.5259	-.0127	.4912	.0006	-.0252	-.0447	.0021	
13242	.301	6050.8	39.49	5.62	.5726	-.0168	.5411	.0005	-.0291	-.0504	.0022	
13243	.300	6021.7	.58	5.07	.0052	.0056	.0051	.0000	-.0138	-.0167	.0002	

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## NASA LANGLEY

## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	NACH NUM	Q PA	RUN 104 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
13244	.301	6043.8	.40	-5.09	-5.09	-.0058	.0169	-.0008	.0093	-.0284	.0726	.0075
13245	.300	6026.8	-1.81	-5.24	-.0792	.0200	.0063	.0064	-.0235	.0602	.0068	.0071
13246	.301	6038.0	.55	-4.98	-.0022	.0161	-.0017	.0089	-.0275	.0689	.0073	.0076
13247	.300	6030.5	3.86	-5.15	.1877	.0266	-.0148	.0115	-.0297	.0725	.0070	.0078
13248	.300	6016.0	7.87	-4.72	.4436	.0689	-.0313	.0093	-.0276	.0656	.0080	.0087
13249	.300	6023.8	11.93	-4.92	.7262	.1561	-.0425	.0086	-.0308	.0703	.0087	.0097
13250	.300	6017.2	15.92	-4.95	1.0212	.2884	-.0606	.0101	-.0304	.0685	.0087	.0097
13251	.300	6022.0	20.12	-4.80	1.2630	.4551	-.0568	-.0096	-.0126	.0496	.0085	.0087
13252	.301	6047.4	23.72	-4.75	1.3562	.5896	-.0411	-.0215	.0245	.0012	.0104	.0126
13253	.300	6042.0	27.81	-5.07	1.3528	.7038	.0252	.0084	.0307	-.0308	.0126	.0143
13254	.300	6018.6	31.93	-4.88	1.3925	.8563	.0446	.0142	.0503	-.0390	.0162	.0169
13255	.301	6039.5	35.81	-5.02	1.4147	1.0034	.0670	.0224	.0615	-.0297	.0162	.0169
13256	.301	6050.0	39.65	-5.02	1.4198	1.1554	.0893	.0338	.0550	-.0239	.0169	.0173
13257	.300	6026.1	.45	-5.09	-.0017	.0168	-.0015	.0090	-.0274	.0677	.0073	.0075

TEST TP	24	NACH NUM	Q PA	RUN 104 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
13244	.301	6043.8	.40	-5.09	-.0057	.0169	-.0008	.0093	-.0283	.0726	.0075
13245	.300	6026.8	-1.81	-5.24	-.0798	.0175	.0073	.0056	-.0236	.0602	.0071
13246	.301	6038.0	.55	-4.98	-.0020	.0161	-.0017	.0092	-.0275	.0689	.0073
13247	.300	6030.5	3.86	-5.15	.1891	.0139	-.0148	.0134	-.0288	.0725	.0076
13248	.300	6016.0	7.87	-4.72	.4448	.0075	-.0313	.0130	-.0261	.0656	.0080
13249	.300	6023.8	11.93	-4.92	.7427	.0027	-.0425	.0148	-.0284	.0703	.0087
13250	.300	6017.2	15.92	-4.95	1.0612	-.0027	-.0606	.0181	-.0265	.0685	.0097
13251	.300	6022.0	20.12	-4.80	1.3424	-.0072	-.0548	-.0047	-.0152	.0496	.0087
13252	.301	6047.4	23.72	-4.75	1.4788	-.0057	-.0411	-.0295	.0138	.0012	.0104
13253	.300	6042.0	27.81	-5.07	1.5258	-.0069	.0252	-.0049	.0311	-.0308	.0126
13254	.300	6018.6	31.93	-4.88	1.6348	-.0095	.0446	-.0146	.0501	-.0390	.0162
13255	.301	6039.5	35.81	-5.02	1.7344	-.0140	.0670	-.0178	.0630	-.0297	.0169
13256	.301	6050.0	39.65	-5.02	1.8305	-.0162	.0893	-.0091	.0639	-.0239	.0169
13257	.300	6026.1	.45	-5.09	-.0016	.0168	-.0015	.0093	-.0273	.0677	.0073

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	NACH NUM	Q PA	RUN 104 ALPHA DEG	BETA DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
13244	.301	6043.8	.47	-5.08	-.0006	.0055	.0004	.0002	.0129	.0134	.0009	.0009
13245	.300	6026.8	-1.74	-5.26	-.0118	.0061	-.0122	-.0003	.0106	.0121	.0009	.0009
13246	.301	6038.0	.61	-4.97	-.0010	.0053	.0008	.0002	.0123	.0146	.0009	.0009
13247	.300	6030.5	3.93	-5.09	.0357	.0075	.0348	.0013	.0126	.0150	.0013	.0013
13248	.300	6016.0	7.93	-4.62	.0888	.0108	.0835	.0025	.0112	.0139	.0020	.0020
13249	.300	6023.8	11.99	-4.77	.1530	.0365	.1428	.0041	.0115	.0145	.0029	.0029
13250	.300	6017.2	15.98	-4.75	.2217	.0842	.2086	.0057	.0115	.0158	.0046	.0046
13251	.300	6022.0	20.18	-4.55	.2943	.1085	.2788	.0068	.0105	.0160	.0067	.0067
13252	.301	6047.4	23.77	-4.45	.3436	.1496	.3340	.0079	.0103	.0173	.0079	.0079
13253	.300	6042.0	27.87	-4.72	.3438	.1977	.3916	.0091	.0120	.0223	.0073	.0073
13254	.300	6018.6	31.98	-4.47	.4100	.2400	.4415	.0098	.0146	.0304	.0085	.0085
13255	.301	6039.5	35.86	-4.54	.4812	.2962	.4693	.0128	.0184	.0475	.0090	.0090
13256	.301	6050.0	39.69	-4.54	.4474	.3499	.5388	.0146	.0187	.0720	.0089	.0089
13257	.300	6026.1	.52	-5.08	.0011	.0053	.0009	.0002	.0123	.0144	.0009	.0009

TEST TP	24	NACH NUM	Q PA	RUN 104 ALPHA DEG	BETA DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
13244	.301	6043.8	.47	-5.08	-.0006	.0055	.0004	.0000	.0129	.0134	.0002	.0002
13245	.300	6026.8	-1.74	-5.26	-.0119	.0057	-.0122	-.0000	.0106	.0121	.0002	.0002
13246	.301	6038.0	.61	-4.97	-.0011	.0053	.0008	.0000	.0123	.0146	.0002	.0002
13247	.300	6030.5	3.93	-5.09	.0362	.0051	.0348	.0004	.0127	.0150	.0004	.0004
13248	.300	6016.0	7.93	-4.62	.0902	.0044	.0835	.0009	.0115	.0139	.0005	.0005
13249	.300	6023.8	11.99	-4.77	.1573	.0039	.1428	.0016	.0121	.0145	.0007	.0007
13250	.300	6017.2	15.98	-4.75	.2314	.0026	.2086	.0023	.0127	.0158	.0011	.0011
13251	.300	6022.0	20.18	-4.55	.3137	.0003	.2788	.0028	.0122	.0160	.0016	.0016
13252	.301	6047.4	23.77	-4.45	.3750	-.0017	.3340	.0031	.0126	.0173	.0019	.0019
13253	.300	6042.0	27.87	-4.72	.4817	-.0046	.3916	.0025	.0149	.0223	.0018	.0018
13254	.300	6018.6	31.98	-4.47	.4780	-.0085	.4415	.0006	.0176	.0306	.0021	.0021
13255	.301	6039.5	35.86	-4.54	.5230	-.0126	.4693	-.0004	.0224	.0405	.0022	.0022
13256	.301	6050.0	39.69	-4.54	.5677	-.0165	.5388	-.0007	.0237	.0420	.0021	.0021
13257	.300	6026.1	.52	-5.08	.0012	.0053	.0009	.0001	.0123	.0144	.0002	.0002





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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 RACH NUMB	Q PA	RUN 106 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
13283	.301	6060.9	.47	-5.02	-.0030	.0172	.0006	-.0001	.0106	.0147	.0080
13284	.301	6045.1	-2.05	-4.75	-.0990	.0201	.0090	-.0030	.0085	.0110	.0069
13285	.300	6040.8	.35	-5.16	-.0107	.0169	.0012	-.0005	.0110	.0148	.0061
13286	.301	6047.4	4.07	-5.03	.2054	.0287	-.0146	.0046	.0107	.0131	.0074
13287	.300	6027.5	8.29	-5.35	.4769	.0771	-.0307	.0059	.0111	.0153	.0079
13288	.299	6002.9	11.80	-5.06	.7108	.1509	-.0366	.0076	.0098	.0122	.0078
13289	.300	6013.5	16.05	-5.14	1.0220	.2906	-.0578	.0119	.0084	.0117	.0084
13290	.300	6030.0	19.81	-5.12	1.2400	.4389	-.0556	-.0013	.0162	.0050	.0082
13291	.299	6001.7	23.92	-5.09	1.3397	.5862	-.0378	-.0181	.0394	-.0198	.0102
13292	.300	6015.3	27.87	-4.95	1.3494	.7060	.0267	.0103	.0372	-.0406	.0120
13293	.299	5993.9	31.65	-4.79	1.3885	.8463	.0384	.0108	.0386	-.0259	.0126
13294	.299	5993.5	35.75	-5.00	1.4278	1.0133	.0613	.0159	.0421	-.0045	.0144
13295	.302	6080.8	39.99	-4.75	1.4260	1.1748	.0884	.0223	.0301	.0050	.0154
13296	.301	6054.4	.40	-4.81	-.0029	.0173	.0006	.0000	.0100	.0109	.0078

TEST TP NUM	24 RACH NUMB	Q PA	RUN 106 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
13283	.301	6060.9	.47	-5.02	-.0028	.0173	.0006	-.0002	.0106	.0147
13284	.301	6045.1	-2.05	-4.75	-.0996	.0165	.0090	-.0027	.0086	.0110
13285	.300	6040.8	.35	-5.16	-.0106	.0170	.0012	-.0005	.0110	.0148
13286	.301	6047.4	4.07	-5.03	.2069	.0140	-.0146	.0038	.0110	.0131
13287	.300	6027.5	8.29	-5.35	.4630	.0076	-.0307	.0043	.0118	.0153
13288	.299	6002.9	11.80	-5.06	.7267	.0023	-.0386	.0054	.0111	.0122
13289	.300	6013.5	16.05	-5.14	1.0625	-.0033	-.0578	.0091	.0113	.0117
13290	.300	6030.0	19.81	-5.12	1.3153	-.0073	-.0556	-.0067	.0146	.0050
13291	.299	6001.7	23.92	-5.09	1.4623	-.0073	-.0378	-.0125	.0287	-.0198
13292	.300	6015.3	27.87	-4.95	1.5229	-.0067	.0267	-.0083	.0378	-.0406
13293	.299	5993.9	31.65	-4.79	1.6261	-.0082	.0384	-.0111	.0385	-.0259
13294	.299	5993.5	35.75	-5.00	1.7507	-.0119	.0613	-.0117	.0434	-.0045
13295	.302	6080.8	39.99	-4.76	1.8475	-.0163	.0884	-.0022	.0374	.0050
13296	.301	6054.4	.40	-4.81	-.0027	.0173	.0006	-.0000	.0100	.0109

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 RACH NUMB	Q PA	RUN 106 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDC2
13283	.301	6060.9	.52	-5.01	.0013	.0058	.0014	.0002	.0128	.0148	.0009
13284	.301	6045.1	-1.99	-4.78	-.0159	.0059	-.0163	-.0004	.0100	.0116	.0009
13285	.300	6040.8	.41	-5.15	.0001	.0058	-.0000	.0001	.0133	.0154	.0010
13286	.301	6047.4	4.14	-4.98	.0387	.0081	.0375	.0014	.0124	.0144	.0014
13287	.300	6027.5	8.36	-5.24	.0964	.0188	.0905	.0030	.0128	.0158	.0022
13288	.299	6002.9	11.86	-4.91	.1504	.0356	.1403	.0041	.0115	.0143	.0027
13289	.300	6013.5	16.11	-4.94	.2223	.0660	.2076	.0058	.0114	.0153	.0046
13290	.300	6030.0	19.87	-4.86	.2869	.1044	.2710	.0071	.0108	.0158	.0064
13291	.299	6001.7	23.95	-4.79	.3398	.1488	.3303	.0082	.0105	.0174	.0078
13292	.300	6015.3	27.93	-4.60	.3841	.1983	.3918	.0090	.0116	.0216	.0074
13293	.299	5993.9	31.70	-4.39	.4054	.2408	.4352	.0096	.0141	.0291	.0083
13294	.299	5993.5	35.80	-4.56	.4334	.2974	.4917	.0131	.0185	.0402	.0092
13295	.302	6080.8	40.04	-4.28	.4481	.3546	.5416	.0137	.0172	.0384	.0090
13296	.301	6054.4	.46	-4.80	.0012	.0055	.0012	.0002	.0120	.0139	.0008

TEST TP NUM	24 RACH NUMB	Q PA	RUN 106 ALPHA2 DEG	BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
13283	.301	6060.9	.53	-5.01	.0015	.0056	.0014	.0001	.0128	.0148	.0002
13284	.301	6045.1	-1.99	-4.78	-.0161	.0053	-.0163	-.0000	.0100	.0116	.0002
13285	.300	6040.8	.41	-5.15	.0001	.0058	-.0000	.0000	.0133	.0154	.0003
13286	.301	6047.4	4.14	-4.98	.0392	.0053	.0375	.0005	.0124	.0144	.0004
13287	.300	6027.5	8.36	-5.24	.0981	.0046	.0905	.0011	.0131	.0158	.0005
13288	.299	6002.9	11.86	-4.91	.1545	.0039	.1403	.0016	.0121	.0143	.0007
13289	.300	6013.5	16.11	-4.94	.2321	.0023	.2076	.0024	.0126	.0153	.0011
13290	.300	6030.0	19.87	-4.86	.3053	.0007	.2710	.0030	.0125	.0158	.0015
13291	.299	6001.7	23.98	-4.79	.3709	-.0021	.3303	.0033	.0129	.0174	.0018
13292	.300	6015.3	27.93	-4.60	.4323	-.0047	.3918	.0025	.0145	.0216	.0018
13293	.299	5993.9	31.70	-4.39	.4714	-.0082	.4352	.0008	.0170	.0291	.0020
13294	.299	5993.5	35.80	-4.56	.5259	-.0124	.4917	-.0002	.0226	.0402	.0022
13295	.302	6080.8	40.04	-4.28	.5712	-.0168	.5416	-.0006	.0219	.0384	.0021
13296	.301	6054.4	.46	-4.80	.0013	.0055	.0012	.0001	.0120	.0139	.0002

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TEST TP	24	MACH NUMB	Q PA	RUN 108 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
13355	.301	6009.1	-0.43	-0.00	-0.0195	.0165	.0026	.0002	-.0020	.0047	.0037	
13356	.300	5991.9	-3.98	-0.02	-.1824	.0296	.0250	.0003	-.0021	.0078	.0058	
13357	.301	6013.5	-1.91	-0.01	-.0749	.0201	.0097	.0001	-.0022	.0072	.0057	
13358	.301	6006.0	-0.65	-0.01	-.0096	.0203	.0015	-.0001	-.0020	.0073	.0057	
13359	.301	6011.2	2.08	.00	.1240	.0279	-.0169	.0005	-.0021	.0066	.0059	
13360	.301	6009.8	4.10	.00	.2220	.0274	-.0310	.0004	-.0020	.0068	.0059	
13361	.300	5988.5	6.15	.01	.3590	.0483	-.0495	.0004	-.0021	.0051	.0066	
13362	.300	5980.6	7.87	.01	.4395	.0677	-.0569	-.0001	-.0019	.0036	.0069	
13363	.300	5961.1	9.76	.01	.5678	.1010	-.0773	.0000	-.0019	.0026	.0073	
13364	.300	5992.0	11.97	.03	.6974	.1513	-.0899	.0002	-.0020	.0026	.0075	
13365	.300	5977.6	13.77	.04	.7737	.1903	-.0968	.0014	-.0022	.0022	.0075	
13366	.301	6006.5	16.01	.06	.8593	.2504	-.1005	.0027	-.0028	.0022	.0074	
13367	.301	5997.6	17.68	.08	.8901	.2890	-.1075	.0006	-.0012	.0016	.0074	
13368	.301	5995.1	19.86	.02	.9539	.3544	-.1227	-.0001	.0004	.0028	.0077	
13369	.299	5951.8	21.67	.03	.9841	.4015	-.1295	.0007	-.0005	.0038	.0090	
13370	.300	5958.6	23.96	.04	.9868	.4523	-.1276	.0019	-.0019	.0017	.0101	
13371	.300	5955.1	25.57	.02	1.0033	.4933	-.1278	.0007	.0013	-.0007	.0109	
13372	.299	5952.7	27.60	-.00	1.0283	.5482	-.1315	.0007	.0033	-.0011	.0115	
13373	.300	5968.8	29.56	.04	1.0804	.6211	-.1343	.0005	.0068	-.0104	.0124	
13374	.300	5957.9	31.81	.01	1.1179	.6968	-.1378	-.0003	.0101	-.0150	.0139	
13375	.301	5993.2	33.86	.07	1.1568	.7763	-.1399	.0003	.0067	-.0127	.0148	
13376	.300	5965.8	35.56	.09	1.1767	.8382	-.1421	.0008	.0038	-.0071	.0161	
13377	.303	6081.6	37.65	.07	1.1993	.9185	-.1419	.0013	.0058	-.0259	.0182	
13378	.300	5975.3	39.84	.11	1.2014	.9920	-.1349	.0024	.0053	-.0269	.0199	
13379	.301	6006.5	41.59	.17	1.1953	1.0473	-.1275	.0009	.0033	-.0288	.0213	
13380	.300	5968.2	43.66	.24	1.1847	1.1132	-.1173	-.0023	-.0016	-.0295	.0223	
13381	.299	5946.0	45.48	.24	1.1701	1.1683	-.1078	-.0073	-.0076	-.0327	.0232	
13382	.300	5975.3	47.61	.26	1.1434	1.2255	-.0946	-.0129	-.0112	-.0327	.0232	
13383	.300	5959.0	-0.42	-0.01	-.0142	.0177	.0034	.0001	-.0019	.0105	.0058	
13384	.301	6025.3										
TEST TP	24	MACH NUMB	Q PA	RUN 108 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY	
13355	.301	6009.1	-0.43	-0.00	-0.0196	.0163	.0026	.0002	-.0020	.0047	.0037	
13356	.300	5991.9	-3.98	-0.02	-.1840	.0169	.0250	.0001	-.0021	.0078	.0058	
13357	.301	6013.5	-1.91	-0.01	-.0755	.0176	.0097	.0000	-.0022	.0072	.0057	
13358	.301	6006.0	-0.65	-0.01	-.0098	.0178	.0015	-.0002	-.0020	.0073	.0057	
13359	.301	6011.2	2.08	.00	.1247	.0158	-.0169	.0005	-.0021	.0066	.0059	
13360	.301	6009.8	4.10	.00	.2234	.0117	-.0310	.0005	-.0020	.0051	.0066	
13361	.300	5988.5	6.15	.01	.3621	.0095	-.0495	.0006	-.0019	.0051	.0066	
13362	.300	5980.6	7.87	.01	.4446	.0069	-.0589	.0002	-.0018	.0036	.0069	
13363	.300	5961.1	9.76	.01	.5718	.0041	-.0773	.0003	-.0019	.0026	.0073	
13364	.300	5992.0	11.97	.03	.7136	.0034	-.0899	.0006	-.0019	.0026	.0075	
13365	.300	5977.6	13.77	.04	.7967	.0007	-.0968	.0019	-.0018	.0022	.0074	
13366	.301	6006.5	16.01	.06	.8950	.0037	-.1005	.0034	-.0020	.0021	.0075	
13367	.301	5997.6	17.68	.08	.9359	.0050	-.1075	.0009	-.0010	.0016	.0077	
13368	.299	5951.8	19.86	.02	1.0176	.0091	-.1227	-.0002	.0004	.0028	.0090	
13369	.300	5958.6	21.67	.03	1.0628	.0097	-.1295	.0009	-.0009	.0038	.0099	
13370	.300	5955.1	23.96	.04	1.0854	.0127	-.1276	.0025	-.0009	.0017	.0101	
13371	.300	5952.7	25.57	.02	1.1179	.0120	-.1278	.0001	.0015	-.0007	.0109	
13372	.299	5952.7	27.60	-.00	1.1633	.0094	-.1315	-.0016	.0037	-.0011	.0115	
13373	.300	5968.8	29.56	.03	1.2461	.0072	-.1343	-.0012	.0031	-.0104	.0124	
13374	.300	5957.9	31.81	.01	1.3173	.0028	-.1378	-.0038	.0057	-.0150	.0139	
13375	.301	5993.2	33.86	.07	1.3931	.0001	-.1399	-.0054	.0085	-.0127	.0148	
13376	.300	5965.8	35.56	.09	1.4447	-.0026	-.1421	-.0033	.0038	-.0071	.0161	
13377	.303	6081.6	37.65	.07	1.5106	-.0054	-.1419	-.0013	.0060	-.0259	.0182	
13378	.300	5975.3	39.84	.11	1.5891	-.0080	-.1349	-.0018	.0031	-.0269	.0199	
13379	.301	6006.5	41.59	.17	1.6256	-.0101	-.1275	-.0005	-.0026	-.0288	.0213	
13380	.300	5968.2	43.66	.24	1.6539	-.0126	-.1173	-.0002	-.0105	-.0295	.0223	
13381	.299	5946.0	45.48	.24	1.6539	-.0150	-.1078	-.0004	-.0170	-.0327	.0232	
13382	.300	5975.3	47.61	.26	1.6759	-.0184	-.0946	.0001	-.0019	.0105	.0058	
13383	.300	5959.0	-0.42	-0.01	-.0143	.0176	.0034	.0001	-.0019	.0105	.0058	
13384	.301	6025.3										

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## NASA LANGLEY

## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 100								
TP		NACH	Q	ALPHA2	REF2	CL2	CO2	CM2	CRM2	CYM2	CY2	CDC2
NUM		NUMB	PA	DEC	DEC							
13355	.301	6009.1	-43	-01	-0012	.0037	-.0018	.0000	.0002	-.0000	.0007	
13356	.300	5991.9	-3.98	-07	-.0164	.0036	-.0199	-.0000	.0003	.0001	.0007	
13357	.301	6013.5	-1.91	-03	-.0060	.0049	-.0078	-.0000	.0003	.0001	.0007	
13358	.301	6004.0	-.65	-01	.0002	.0049	-.0002	-.0000	.0002	.0000	.0008	
13359	.301	6011.2	2.08	.03	.0128	.0034	.0146	-.0000	.0001	-.0001	.0011	
13360	.301	6009.8	6.10	.05	.0233	.0064	.0263	.0000	.0002	.0001	.0014	
13361	.300	5988.5	8.15	.09	.0381	.0093	.0422	-.0000	-.0000	-.0002	.0026	
13362	.300	5980.6	7.87	.11	.0477	.0109	.0524	-.0000	-.0000	-.0001	.0034	
13363	.300	5961.1	9.76	.14	.0616	.0150	.0669	-.0000	-.0000	-.0000	.0048	
13364	.300	5992.0	11.97	.19	.0814	.0221	.0871	-.0001	-.0002	-.0002	.0070	
13365	.300	5977.4	13.76	.22	.0933	.0275	.0995	-.0001	-.0002	-.0003	.0082	
13366	.301	6006.5	16.00	.27	.1134	.0372	.1212	-.0002	-.0005	-.0004	.0104	
13367	.301	5997.6	17.68	.23	.1226	.0429	.1317	-.0001	-.0000	.0004	.0108	
13370	.299	5951.8	19.86	.27	.1395	.0536	.1520	.0000	.0003	.0013	.0116	
13371	.300	5955.1	21.67	.30	.1502	.0612	.1656	.0001	.0006	.0021	.0126	
13372	.300	5958.6	23.96	.35	.1630	.0727	.1829	.0001	.0008	.0027	.0137	
13373	.299	5952.7	25.57	.39	.1725	.0816	.1957	.0002	.0008	.0033	.0143	
13374	.300	5948.8	27.60	.35	.1825	.0930	.2096	.0003	.0006	.0017	.0143	
13375	.300	5957.9	29.56	.40	.1976	.1079	.2296	.0003	.0004	.0014	.0156	
13376	.301	5993.2	31.81	.40	.2081	.1216	.2451	-.0007	-.0012	-.0030	.0169	
13377	.300	5965.8	33.86	.48	.2206	.1374	.2649	-.0010	-.0015	-.0034	.0184	
13378	.303	6081.6	35.56	.52	.2279	.1492	.2777	-.0011	-.0015	-.0033	.0202	
13379	.300	5975.3	37.65	.52	.2382	.1667	.2955	-.0006	-.0007	-.0015	.0255	
13380	.301	6006.5	39.84	.59	.2494	.1835	.3151	-.0026	-.0031	-.0081	.0297	
13381	.300	5968.2	41.58	.66	.2574	.2038	.3309	-.0038	-.0044	-.0109	.0303	
13382	.298	5946.0	43.66	.75	.2667	.2249	.3512	-.0058	-.0063	-.0163	.0309	
13383	.300	5975.3	45.47	.78	.2744	.2459	.3697	-.0088	-.0088	-.0230	.0309	
13384	.300	5959.0	47.61	.81	.2813	.2683	.3910	-.0123	-.0114	-.0306	.0297	
13385	.301	6025.3	49.42	-.02	-.0001	.0037	-.0006	-.0000	.0000	.0001	.0007	

TEST	24			RUN 100								
TP		NACH	Q	ALPHA2	REF2	CM2	CA2	CH2	CRM2	CYM2	CY2	CDC2
NUM		NUMB	PA	DEC	DEC							
13355	.301	6009.1	-43	-01	-0012	.0036	-.0018	.0000	.0002	-.0000	.0002	
13356	.300	5991.9	-3.98	-07	-.0168	.0045	-.0199	-.0000	.0003	.0001	.0002	
13357	.301	6013.5	-1.91	-03	-.0062	.0047	-.0078	.0000	.0003	.0001	.0002	
13358	.301	6006.0	-.65	-01	.0002	.0049	-.0002	-.0000	.0002	.0000	.0002	
13359	.301	6011.2	2.08	.03	.0130	.0051	.0146	-.0000	.0001	-.0001	.0003	
13360	.301	6009.8	6.10	.05	.0237	.0048	.0263	-.0000	.0002	.0001	.0004	
13361	.300	5988.5	8.15	.09	.0388	.0052	.0422	-.0000	-.0000	-.0002	.0006	
13362	.300	5980.6	7.87	.11	.0487	.0043	.0524	-.0000	-.0000	-.0001	.0009	
13363	.300	5961.1	9.76	.14	.0635	.0043	.0669	-.0000	-.0000	-.0000	.0012	
13364	.300	5992.0	11.97	.19	.0842	.0047	.0871	-.0000	-.0002	-.0002	.0018	
13365	.300	5977.4	13.76	.22	.0972	.0045	.0995	-.0000	-.0002	-.0003	.0021	
13366	.301	6006.5	16.00	.27	.1193	.0045	.1212	-.0001	-.0005	-.0004	.0027	
13367	.301	5997.6	17.68	.23	.1298	.0036	.1317	-.0001	-.0000	.0004	.0028	
13370	.299	5951.8	19.86	.27	.1494	.0030	.1520	-.0001	.0003	.0013	.0030	
13371	.300	5955.1	21.67	.30	.1622	.0014	.1656	-.0001	.0006	.0021	.0032	
13372	.300	5958.6	23.96	.35	.1785	.0002	.1829	-.0002	.0006	.0023	.0035	
13373	.299	5952.7	25.57	.39	.1906	-.0008	.1957	-.0001	.0008	.0027	.0037	
13374	.300	5948.8	27.60	.35	.2049	-.0021	.2096	-.0000	.0007	.0017	.0037	
13375	.300	5957.9	29.56	.40	.2291	-.0037	.2296	.0004	.0005	.0014	.0040	
13376	.301	5993.2	31.81	.40	.2409	-.0063	.2451	.0000	-.0014	-.0030	.0049	
13377	.300	5965.8	33.86	.48	.2598	-.0088	.2649	.0000	-.0018	-.0034	.0047	
13378	.303	6081.6	35.56	.52	.2722	-.0111	.2777	-.0000	-.0016	-.0033	.0052	
13379	.300	5975.3	37.65	.52	.2904	-.0135	.2955	-.0000	-.0009	-.0015	.0066	
13380	.301	6006.5	39.84	.59	.3116	-.0158	.3151	-.0000	-.0041	-.0081	.0076	
13381	.300	5968.2	41.58	.66	.3284	-.0176	.3309	.0001	-.0058	-.0109	.0078	
13382	.298	5946.0	43.66	.75	.3493	-.0203	.3512	.0002	-.0086	-.0163	.0078	
13383	.300	5975.3	45.47	.78	.3677	-.0232	.3697	.0001	-.0124	-.0230	.0078	
13384	.300	5959.0	47.61	.81	.3878	-.0269	.3910	.0001	-.0168	-.0306	.0076	
13385	.301	6025.3	49.42	-.02	-.0002	.0037	-.0006	-.0000	.0000	.0001	.0002	







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## 7 X 10 HIGH SPEED TUNNEL

TEST		24		7 X 10 HIGH SPEED TUNNEL									
TP	MACH	Q	RUN 113	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC	
NUM	NUMB	PA	DEG	DEG									
13493	.300	6009.6	.29	-5.14	-.0144	.0168	.0025	-.0004	.0109	.0194	.0082		
13494	.300	6021.8	-1.92	-5.17	-.0879	.0180	.0144	-.0024	.0092	.0170	.0074		
13495	.300	6012.0	.26	-4.92	-.0153	.0166	.0023	-.0003	.0104	.0188	.0081		
13496	.300	6011.7	3.94	-4.89	.1859	.0252	-.0252	.0042	.0100	.0160	.0077		
13497	.301	6026.3	7.89	-5.00	.4232	.0645	-.0383	.0055	.0108	.0167	.0078		
13498	.300	6011.9	11.95	-5.00	.6677	.1427	-.0867	.0054	.0105	.0210	.0078		
13500	.301	6045.0	16.12	-4.84	.8473	.2461	-.1006	.0030	.0136	.0202	.0081		
13501	.299	5986.7	19.87	-5.13	.9467	.3471	-.1165	.0032	.0216	.0127	.0092		
13502	.299	5980.8	23.84	-4.75	.9769	.4426	-.1293	.0031	.0335	.0001	.0101		
13503	.300	6006.6	27.61	-5.17	1.0447	.5549	-.1334	.0109	.0230	.0222	.0113		
13504	.300	5999.3	31.70	-5.14	1.1308	.7012	-.1370	.0180	.0094	.0344	.0127		
13505	.300	5993.8	35.88	-4.76	1.1782	.8479	-.1404	.0186	-.0019	.0378	.0151		
13506	.300	6005.1	39.49	-5.21	1.1813	.9629	-.1296	.0163	.0005	.0432	.0181		
13507	.301	6053.8	43.49	-5.08	1.1593	1.0806	-.1119	.0104	-.0039	.0410	.0210		
13508	.301	6026.0	47.59	-4.73	1.1222	1.2001	-.0873	-.0086	-.0102	.0290	.0227		
			.34	-4.82	-.0071	.0173	.0024	-.0002	.0104	.0172	.0079		

TEST		24		7 X 10 HIGH SPEED TUNNEL									
TP	MACH	Q	RUN 113	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY		
NUM	NUMB	PA	DEG	DEG									
13493	.300	6009.6	.29	-5.14	-.0143	.0168	.0025	-.0004	.0109	.0194	.0082		
13494	.300	6021.8	-1.92	-5.17	-.0885	.0150	.0144	-.0021	.0093	.0170	.0074		
13495	.300	6012.0	.26	-4.92	-.0152	.0167	.0023	-.0004	.0104	.0188	.0081		
13496	.300	6011.7	3.94	-4.89	.1872	.0124	-.0252	.0035	.0102	.0160	.0077		
13497	.301	6026.3	7.89	-5.00	.4281	.0058	-.0383	.0040	.0115	.0167	.0078		
13498	.300	6011.9	11.95	-5.00	.6828	.0013	-.0867	.0031	.0114	.0210	.0078		
13500	.301	6045.0	16.12	-4.84	.8824	.0012	-.1006	-.0009	.0139	.0202	.0081		
13501	.299	5986.7	19.87	-5.13	1.0081	.0047	-.1165	-.0043	.0214	.0127	.0092		
13502	.299	5980.8	23.84	-4.75	1.0724	.0100	-.1293	-.0107	.0319	.0001	.0101		
13503	.300	6006.6	27.61	-5.17	1.1829	.0075	-.1334	-.0010	.0254	.0222	.0113		
13504	.300	5999.3	31.70	-5.14	1.3306	.0023	-.1370	.0103	.0175	.0344	.0127		
13505	.300	5993.8	35.88	-4.76	1.4516	-.0035	-.1404	.0161	.0094	.0378	.0151		
13506	.300	6005.1	39.49	-5.21	1.5240	-.0081	-.1296	.0122	.0107	.0432	.0181		
13507	.301	6053.8	43.49	-5.08	1.5847	-.0138	-.1119	.0102	.0043	.0410	.0210		
13508	.301	6026.0	47.59	-4.73	1.6429	-.0193	-.0873	.0072	-.0073	.0290	.0227		
			.34	-4.82	-.0070	.0173	.0024	-.0002	.0104	.0172	.0079		

## NASA LANGLEY

## 7 X 10 HIGH SPEED TUNNEL

TEST 24				7 X 10 HIGH SPEED TUNNEL									
TP	MACH	Q	RUN 113	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2	
NUM	NUMB	PA	DEG	DEG									
13493	.300	6009.6	.36	-5.13	-.0005	.0050	-.0005	.0001	.0139	.0164	.0008		
13494	.300	6021.8	-1.86	-5.20	-.0067	.0045	-.0087	-.0003	.0117	.0137	.0006		
13495	.300	6012.0	.32	-4.91	-.0005	.0051	-.0008	.0001	.0132	.0156	.0007		
13496	.300	6011.7	4.00	-4.84	.0178	.0056	.0218	.0008	.0123	.0145	.0010		
13497	.301	6026.3	7.96	-4.90	.0421	.0198	.0813	.0018	.0127	.0156	.0019		
13498	.300	6011.9	12.01	-4.84	.0737	.0168	.1169	.0028	.0129	.0169	.0036		
13499	.300	5988.1	16.18	-4.63	.1068	.0347	.1481	.0039	.0130	.0182	.0053		
13500	.301	6045.0	19.93	-4.87	.1333	.0508	.1769	.0052	.0141	.0209	.0056		
13501	.299	5986.7	23.90	-4.45	.1547	.0701	.2075	.0060	.0138	.0226	.0034		
13502	.299	5980.8	27.67	-4.82	.1780	.0922	.2435	.0079	.0157	.0278	.0023		
13503	.300	6006.6	31.76	-4.75	.2043	.1209	.2766	.0096	.0161	.0309	.0023		
13504	.300	5999.3	35.93	-4.32	.2241	.1479	.3072	.0107	.0152	.0315	.0031		
13505	.300	5993.8	39.54	-4.74	.2400	.1781	.3412	.0116	.0149	.0318	.0083		
13506	.300	6005.1	43.53	-4.56	.2546	.2155	.3854	.0094	.0108	.0243	.0086		
13507	.301	6053.8	47.63	-4.17	.2705	.2611	.4008	.0030	.0038	.0067	.0070		
13508	.301	6026.0	.40	-4.81	.0008	.0051	.0008	.0001	.0129	.0193	.0006		

TEST 24				7 X 10 HIGH SPEED TUNNEL									
TP	MACH	Q	RUN 113	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2	
NUM	NUMB	PA	DEG	DEG									
13493	.300	6009.6	.36	-5.13	-.0004	.0050	-.0005	.0000	.0139	.0164	.0002		
13494	.300	6021.8	-1.86	-5.20	-.0068	.0043	-.0087	.0000	.0117	.0137	.0001		
13495	.300	6012.0	.32	-4.91	-.0005	.0051	-.0008	.0000	.0132	.0156	.0002		
13496	.300	6011.7	4.00	-4.84	.0182	.0044	.0218	-.0000	.0123	.0145	.0002		
13497	.301	6026.3	7.96	-4.90	.0431	.0041	.0484	-.0000	.0128	.0156	.0005		
13498	.300	6011.9	12.01	-4.84	.0762	.0040	.0813	.0001	.0133	.0169	.0009		
13499	.300	5988.1	16.18	-4.63	.1123	.0036	.1169	.0001	.0136	.0182	.0013		
13500	.301	6045.0	19.93	-4.87	.1426	.0023	.1481	.0001	.0150	.0209	.0014		
13501	.299	5986.7	23.90	-4.45	.1699	.0015	.1769	-.0001	.0151	.0226	.0008		
13502	.299	5980.8	27.67	-4.82	.2004	-.0010	.2075	-.0003	.0176	.0278	.0005		
13503	.300	6006.6	31.76	-4.75	.2374	-.0047	.2435	-.0003	.0188	.0309	.0005		
13504	.300	5999.3	35.93	-4.32	.2683	-.0117	.2766	-.0002	.0186	.0315	.0012		
13505	.300	5993.8	39.54	-4.74	.2985	-.0155	.3072	-.0005	.0189	.0318	.0020		
13506	.300	6005.1	43.53	-4.56	.3330	-.0191	.3412	-.0006	.0144	.0243	.0021		
13507	.301	6053.8	47.63	-4.17	.3752	-.0240	.3854	-.0008	.0048	.0067	.0017		
13508	.301	6026.0	.40	-4.81	.0009	.0051	.0008	.0000	.0129	.0193	.0001		



NASA LANGLEY										7 X 10 HIGH SPEED TUNNEL				
TEST	24			RUN 124										
TP		MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC		
NUM		NUMB	PA	DEG	DEG									
13874	.301	6011.1	.90	5.11	.0220	.0154	.0006	-.0003	.0237	-.0731	.0074			
13875	.300	5985.8	-2.12	4.81	-.1061	.0213	-.0112	-.0049	.0180	-.0550	.0065			
13876	.301	5991.9	.65	4.88	.0328	.0173	.0016	-.0087	.0242	-.0731	.0075			
13877	.300	5968.4	4.08	4.90	.2342	.0289	.0186	-.0093	.0233	-.0586	.0075			
13878	.301	5991.8	7.87	4.91	.4585	.0711	.0369	-.0085	.0226	-.0673	.0077			
13879	.300	5987.4	11.92	4.76	.7343	.1592	.0596	-.0084	.0218	-.0587	.0078			
13880	.302	6038.5	15.86	5.03	.9751	.2747	.0801	-.0067	.0210	-.0706	.0084			
13881	.299	5946.9	19.79	5.09	1.2081	.4276	.1173	.0051	.0079	-.0615	.0088			
13882	.301	6004.1	23.88	4.87	1.3136	.5747	.1349	.0173	-.0224	-.0199	.0102			
13883	.300	5961.8	27.77	4.84	1.3356	.6995	.1558	-.0012	-.0391	.0085	.0110			
13884	.300	5974.9	31.80	4.85	1.3839	.8489	.1817	-.0112	-.0503	.0139	.0130			
13885	.300	5983.8	35.76	5.18	1.4158	1.0078	.2060	-.0270	-.0536	.0072	.0155			
13886	.301	6003.1	39.64	4.84	1.4105	1.1312	.2324	-.0311	-.0387	-.0039	.0172			
13887	.301	5997.5	43.85	5.15	1.3088	1.2912	.2550	-.0357	-.0318	-.0131	.0199			
13888	.300	5967.7	47.47	4.99	1.3140	1.4012	.2744	-.0331	-.0253	-.0232	.0213			
13889	.298	5909.5	.62	4.82	.0391	.0193	.0021	-.0086	.0236	-.0659	.0074			

TEST	24			RUN 124										
TP		MACH	Q	ALPHA	BETA	CN	CA	CM	CRM	CYN	CY			
NUM		NUMB	PA	DEG	DEG									
13874	.301	6011.1	.90	5.11	.0221	.0152	.0006	-.0005	.0236	-.0731				
13875	.300	5985.8	-2.12	4.81	-.1068	.0173	-.0112	-.0042	.0182	-.0550				
13876	.301	5991.9	.65	4.88	.0330	.0169	.0016	-.0090	.0241	-.0731				
13877	.300	5968.4	4.08	4.90	.2357	.0122	.0186	-.0110	.0226	-.0686				
13878	.301	5991.8	7.87	4.91	.4639	.0076	.0369	-.0115	.0212	-.0673				
13879	.300	5987.4	11.92	4.76	.7514	.0041	.0596	-.0128	.0196	-.0687				
13880	.302	6038.5	15.86	5.03	1.0130	-.0023	.0801	-.0122	.0184	-.0706				
13881	.299	5946.9	19.79	5.09	1.2815	-.0068	.1173	.0021	.0092	-.0615				
13882	.301	6004.1	23.88	4.87	1.4338	-.0063	.1349	.0249	-.0134	-.0199				
13883	.300	5961.8	27.77	4.84	1.5077	-.0034	.1558	.0172	-.0352	.0085				
13884	.300	5974.9	31.80	4.85	1.6235	-.0078	.1817	.0170	-.0487	.0139				
13885	.300	5983.8	35.76	5.18	1.7378	-.0097	.2060	.0094	-.0593	.0072				
13886	.301	6003.1	39.64	4.84	1.8206	-.0133	.2324	.0007	-.0496	-.0035				
13887	.301	5997.5	43.85	5.15	1.8816	-.0171	.2550	-.0037	-.0477	-.0131				
13888	.300	5967.7	47.47	4.99	1.9208	-.0210	.2744	-.0037	-.0415	-.0232				
13889	.298	5909.5	.62	4.82	.0393	.0189	.0021	-.0088	.0236	-.0659				

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TEST	24			RUN 124										
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CY2	CDC2		
NUM		NUMB	PA	DEG	DEG									
13874	.301	6011.1	.44	5.12	.0026	.0091	.0025	-.0001	-.0129	-.0152	.0008			
13875	.300	5985.8	-2.18	4.78	-.0189	.0063	-.0191	.0006	-.0103	-.0121	.0007			
13876	.301	5991.9	.59	4.89	.0048	.0059	.0051	-.0001	-.0131	-.0153	.0008			
13877	.300	5968.4	4.01	4.95	.0432	.0084	.0415	-.0011	-.0126	-.0151	.0012			
13878	.301	5991.8	7.81	5.01	.0933	.0179	.0881	-.0023	-.0118	-.0146	.0014			
13879	.300	5987.4	11.86	4.91	.1608	.0387	.1514	-.0037	-.0119	-.0155	.0022			
13880	.302	6038.5	15.80	5.23	.2219	.0658	.2102	-.0052	-.0121	-.0168	.0040			
13881	.299	5946.9	19.73	5.35	.2941	.1069	.2926	-.0069	-.0124	-.0185	.0063			
13882	.301	6004.1	23.82	5.17	.3434	.1496	.3403	-.0079	-.0122	-.0202	.0072			
13883	.300	5961.8	27.71	5.19	.3680	.1872	.3886	-.0087	-.0151	-.0288	.0062			
13884	.300	5974.9	31.74	5.25	.3966	.2338	.4384	-.0107	-.0170	-.0343	.0070			
13885	.300	5983.8	35.71	5.62	.4236	.2873	.4922	-.0152	-.0211	-.0435	.0084			
13886	.301	6003.1	39.59	5.32	.4405	.3402	.5392	-.0156	-.0186	-.0392	.0086			
13887	.301	5997.5	43.80	5.67	.4460	.3949	.5840	-.0187	-.0188	-.0396	.0062			
13888	.300	5967.7	47.42	5.54	.4428	.4400	.6235	-.0196	-.0178	-.0386	.0033			
13889	.298	5909.5	.55	4.83	.0050	.0061	.0051	-.0001	-.0130	-.0152	.0008			

TEST	24			RUN 124										
TP		MACH	Q	ALPHA2	BETA2	CN2	CA2	CN2	CRM2	CYN2	CY2	CDC2		
NUM		NUMB	PA	DEG	DEG									
13874	.301	6011.1	.44	5.12	.0026	.0051	.0025	.0000	-.0129	-.0152	.0002			
13875	.300	5985.8	-2.18	4.78	-.0191	.0056	-.0191	.0002	-.0103	-.0121	.0002			
13876	.301	5991.9	.59	4.89	.0049	.0059	.0051	.0000	-.0131	-.0153	.0002			
13877	.300	5968.4	4.01	4.95	.0437	.0053	.0415	-.0002	-.0127	-.0151	.0003			
13878	.301	5991.8	7.81	5.01	.0948	.0051	.0881	-.0006	-.0120	-.0146	.0004			
13879	.300	5987.4	11.86	4.91	.1633	.0049	.1514	-.0012	-.0124	-.0155	.0005			
13880	.302	6038.5	15.80	5.23	.2315	.0028	.2102	-.0017	-.0131	-.0168	.0010			
13881	.299	5946.9	19.73	5.35	.3130	.0013	.2926	-.0023	-.0140	-.0185	.0015			
13882	.301	6004.1	23.82	5.17	.3746	-.0018	.3403	-.0023	-.0143	-.0202	.0017			
13883	.300	5961.8	27.71	5.19	.4128	-.0054	.3886	-.0007	-.0174	-.0288	.0014			
13884	.300	5974.9	31.74	5.25	.4602	-.0099	.4384	-.0001	-.0200	-.0343	.0016			
13885	.300	5983.8	35.71	5.62	.5116	-.0139	.4922	-.0000	-.0260	-.0435	.0019			
13886	.301	6003.1	39.59	5.32	.5563	-.0185	.5392	-.0002	-.0243	-.0392	.0018			
13887	.301	5997.5	43.80	5.67	.5952	-.0236	.5840	-.0005	-.0266	-.0396	.0012			
13888	.300	5967.7	47.42	5.54	.6236	-.0284	.6235	-.0002	-.0264	-.0386	.0005			
13889	.298	5909.5	.55	4.83	.0051	.0061	.0051	.0000	-.0130	-.0152	.0002			

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	RUN 125											
TP	MACH	Q	ALPHA	BETA	CL	CD	CRS	CRMS	CYMS	CYS	CDC		
NUM	NUMB	PA	DEG	DEG									
13906	.300	5979.2	.45	-5.05	-.0046	.0163	-.0027	.0102	-.0264	.0721	.0075		
13907	.300	6002.7	-2.18	-5.16	-.0961	.0208	-.0097	.0080	-.0232	.0635	.0069		
13908	.300	5998.7	.39	-4.87	-.0064	.0170	-.0025	.0100	-.0279	.0710	.0074		
13909	.300	5990.6	3.91	-5.01	.1944	.0256	.0144	.0113	-.0282	.0705	.0076		
13910	.300	5998.9	7.87	-5.18	.4514	.0702	.0372	.0124	-.0314	.0762	.0080		
13911	.299	5938.4	12.08	-5.02	.7255	.1592	.0598	.0109	-.0297	.0724	.0081		
13912	.300	5975.0	15.77	-5.07	.9526	.2666	.0793	.0102	-.0287	.0673	.0085		
13913	.300	6004.4	19.90	-4.99	1.1875	.4216	.1153	-.0021	-.0157	.0517	.0089		
13914	.299	5956.3	23.81	-4.99	1.3088	.5683	.1347	-.0142	.0150	.0075	.0105		
13915	.300	5983.8	27.81	-5.18	1.3234	.6928	.1534	.0027	.0416	-.0298	.0119		
13916	.300	6001.4	31.71	-5.11	1.3805	.8430	.1788	.0119	.0519	-.0310	.0132		
13917	.301	6012.5	35.82	-5.05	1.3982	.9955	.2010	.0248	.0540	-.0310	.0139		
13918	.301	6008.7	39.59	-5.09	1.4015	1.1415	.2300	.0299	.0404	-.0164	.0163		
13919	.300	6006.3	43.62	-4.99	1.3667	1.2796	.2590	.0258	.0167	.0134	.0188		
13920	.300	6007.5	47.68	-5.02	1.2983	1.3944	.2791	.0194	.0027	.0686	.0215		
13921	.300	6002.6	.43	-4.96	.0003	.0167	-.0019	.0100	-.0271	.0722	.0073		

TEST	24	RUN 125											
TP	MACH	Q	ALPHA	BETA	CL	CA	CM	CRM	CYM	CY			
NUM	NUMB	PA	DEG	DEG									
13906	.300	5979.2	.45	-5.05	-.0045	.0164	-.0027	.0104	-.0283	.0721			
13907	.300	6002.7	-2.18	-5.16	-.0968	.0171	-.0097	.0071	-.0235	.0635			
13908	.300	5998.7	.39	-4.87	-.0062	.0171	-.0025	.0102	-.0278	.0710			
13909	.300	5990.6	3.91	-5.01	.1957	.0123	.0144	.0132	-.0274	.0705			
13910	.300	5998.9	7.87	-5.18	.4567	.0077	.0372	.0166	-.0294	.0762			
13911	.299	5938.4	12.08	-5.02	.7427	.0038	.0598	.0169	-.0268	.0724			
13912	.300	5975.0	15.77	-5.07	.9892	-.0023	.0793	.0176	-.0248	.0673			
13913	.300	6004.4	19.90	-4.95	1.2601	-.0078	.1153	.0034	-.0155	.0517			
13914	.299	5956.3	23.81	-4.99	1.4268	-.0084	.1347	-.0191	.0080	.0075			
13915	.300	5983.8	27.81	-5.18	1.4937	-.0046	.1534	-.0170	.0360	-.0298			
13916	.300	6001.4	31.71	-5.11	1.6175	-.0086	.1788	-.0172	.0504	-.0310			
13917	.301	6012.5	35.82	-5.05	1.7164	-.0110	.2010	-.0115	.0583	-.0310			
13918	.301	6008.7	39.59	-5.09	1.8075	-.0134	.2300	-.0027	.0502	-.0164			
13919	.300	6006.3	43.62	-4.99	1.8722	-.0166	.2590	.0072	.0299	.0134			
13920	.300	6007.5	47.68	-5.02	1.9051	-.0211	.2791	.0111	.0161	.0686			
13921	.300	6002.6	.43	-4.96	.0004	.0167	-.0019	.0102	-.0270	.0722			

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TEST	24			RUN 125									
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDC2	
NUM		NUMB	PA	DEG	DEG								
13906	.300	5979.2	.52	-5.05	.0004	.0052	.0004	.0002	.0129	.0149	.0007		
13907	.300	6002.7	-2.11	-5.19	-.0153	.0054	-.0149	-.0005	.0115	.0137	.0008		
13908	.300	5998.7	.45	-4.86	.0007	.0056	.0008	.0002	.0127	.0146	.0007		
13909	.300	5990.6	3.98	-4.95	.0384	.0074	.0372	.0013	.0122	.0142	.0012		
13910	.300	5998.9	7.94	-5.08	.0951	.0179	.0902	.0028	.0128	.0153	.0018		
13911	.299	5938.4	12.14	-4.87	.1618	.0392	.1530	.0042	.0120	.0154	.0026		
13912	.300	5975.0	15.83	-4.87	.2184	.0645	.2071	.0055	.0113	.0152	.0042		
13913	.300	6004.4	19.96	-4.70	.2699	.1060	.2792	.0068	.0108	.0161	.0063		
13914	.299	5956.3	23.87	-4.69	.3409	.1490	.3391	.0078	.0112	.0191	.0066		
13915	.300	5983.8	27.87	-4.83	.3662	.1875	.3877	.0090	.0146	.0283	.0060		
13916	.300	6001.4	31.77	-4.72	.3958	.2340	.4384	.0103	.0159	.0332	.0067		
13917	.301	6012.5	35.87	-4.62	.4179	.2853	.4875	.0127	.0173	.0368	.0078		
13918	.301	6008.7	39.64	-4.61	.4383	.3400	.5383	.0131	.0162	.0354	.0076		
13919	.300	6006.3	43.67	-4.46	.4454	.3941	.5867	.0124	.0138	.0327	.0057		
13920	.300	6007.5	47.72	-4.46	.4377	.4403	.6281	.0165	.0164	.0463	.0023		
13921	.300	6002.6	.49	-4.96	.0012	.0056	.0010	.0002	.0121	.0138	.0007		

TEST	24			RUN 125								
TP		MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM		NUMB	PA	DEG	DEG							
13906	.300	5979.2	.52	-5.05	.0005	.0052	.0004	.0001	.0129	.0149	.0002	
13907	.300	6002.7	-2.11	-5.19	-.0155	.0056	-.0149	-.0006	.0115	.0137	.0002	
13908	.300	5998.7	.45	-4.86	.0007	.0056	.0008	.0001	.0127	.0146	.0002	
13909	.300	5990.6	3.98	-4.95	.0388	.0047	.0372	.0004	.0123	.0142	.0003	
13910	.300	5998.9	7.94	-5.08	.0957	.0046	.0902	.0010	.0131	.0153	.0004	
13911	.299	5938.4	12.14	-4.87	.1664	.0043	.1530	.0016	.0127	.0154	.0006	
13912	.300	5975.0	15.83	-4.87	.2277	.0025	.2071	.0022	.0124	.0152	.0009	
13913	.300	6004.4	19.96	-4.70	.3087	.0007	.2792	.0028	.0125	.0161	.0015	
13914	.299	5956.3	23.87	-4.69	.3721	-.0017	.3391	.0026	.0134	.0191	.0016	
13915	.300	5983.8	27.87	-4.83	.4113	-.0054	.3877	.0011	.0171	.0283	.0014	
13916	.300	6001.4	31.77	-4.72	.4597	-.0094	.4384	.0004	.0190	.0332	.0015	
13917	.301	6012.5	35.87	-4.62	.5059	-.0137	.4875	.0001	.0215	.0368	.0016	
13918	.301	6008.7	39.64	-4.61	.5544	-.0178	.5383	-.0002	.0208	.0354	.0017	
13919	.300	6006.3	43.67	-4.46	.5943	-.0225	.5867	-.0006	.0185	.0327	.0012	
13920	.300	6007.5	47.72	-4.46	.6203	-.0276	.6281	-.0010	.0232	.0463	.0004	
13921	.300	6002.6	.49	-4.96	.0012	.0055	.0010	.0001	.0121	.0138	.0002	

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TEST TP	24	MACH	Q	RUN 126	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC	
NUM		NUMB	PA	ALPHA	DEG								
13933		.300	5985.5		.74	5.05	.0354	.0154	.0024	-.0002	-.0111	-.0240	.0078
13934		.301	6014.0	-1.89	4.83	-.0950	.0200	-.0089	.0024	-.0087	-.0178		.0066
13935		.300	6005.6		.82	5.04	.0395	.0168	.0026	-.0004	-.0118	-.0262	.0079
13936		.300	5981.3		3.90	5.06	.2179	.0262	.0177	-.0030	-.0107	-.0240	.0076
13937		.300	5973.5		7.92	4.77	.4630	.0716	.0395	-.0049	-.0100	-.0253	.0075
13938		.300	5985.0		11.75	4.92	.6971	.1480	.0598	-.0067	-.0095	-.0277	.0076
13939		.300	5993.1		15.83	4.81	.9741	.2732	.0829	-.0076	-.0095	-.0305	.0081
13940		.300	5984.0		19.89	4.78	1.2098	.4292	.1228	.0031	-.0171	-.0287	.0086
13941		.300	5996.5		23.72	5.09	1.3229	.5746	.1349	.0148	-.0406	-.0024	.0109
13942		.300	5978.8		27.77	5.06	1.3388	.7004	.1556	-.0021	-.0403	.0009	.0109
13943		.300	5996.1		31.83	5.00	1.3948	.8581	.1823	-.0096	-.0399	-.0102	.0120
13944		.301	6018.7		35.86	4.81	1.4159	1.0110	.2061	-.0190	-.0331	-.0207	.0137
13945		.300	5994.3		39.73	4.60	1.4107	1.1540	.2327	-.0199	-.0229	-.0361	.0158
13946		.301	6014.0		43.70	4.99	1.3698	1.2861	.2582	-.0218	-.0160	-.0494	.0189
13947		.300	5997.8		47.75	5.08	1.3051	1.4064	.2788	-.0220	-.0130	-.0613	.0210
13948		.300	5991.0		.68	5.05	.0388	.0183	.0028	-.0002	-.0120	-.0226	.0080

TEST TP	24	MACH	Q	RUN 126	BETA	CM	CA	CM	CRM	CYM	CY
NUM	NUMB	PA	ALPHA	DEG	DEG						
13933	.300	5985.5	.74	5.05	.0356	.0149	.0024	-.0001	-.0111	-.0240	
13934	.301	6014.0	-1.89	4.83	-.0957	.0169	-.0089	.0023	-.0088	-.0178	
13935	.300	6005.6	.82	5.04	.0397	.0163	.0026	-.0003	-.0118	-.0262	
13936	.300	5981.3	3.90	5.06	.2192	.0113	.0177	-.0022	-.0109	-.0240	
13937	.300	5973.5	7.92	4.77	.4685	.0071	.0395	-.0035	-.0106	-.0253	
13938	.300	5985.0	11.75	4.92	.7126	.0030	.0598	-.0046	-.0107	-.0277	
13939	.300	5993.1	15.83	4.81	1.0117	-.0030	.0829	-.0047	-.0112	-.0305	
13940	.300	5984.0	19.89	4.78	1.2837	-.0079	.1228	.0087	-.0150	-.0287	
13941	.300	5996.5	23.72	5.09	1.4423	-.0061	.1349	.0299	-.0312	-.0024	
13942	.300	5978.8	27.77	5.06	1.5109	-.0042	.1556	.0170	-.0366	.0009	
13943	.300	5996.1	31.83	5.00	1.6376	-.0065	.1823	.0129	-.0390	-.0102	
13944	.301	6018.7	35.86	4.81	1.7398	-.0099	.2061	.0040	-.0380	-.0207	
13945	.300	5994.3	39.73	4.60	1.8225	-.0143	.2327	-.0007	-.0304	-.0361	
13946	.301	6014.0	43.70	4.99	1.8789	-.0166	.2582	-.0047	-.0266	-.0494	
13947	.300	5997.8	47.75	5.08	1.9186	-.0206	.2788	-.0052	-.0250	-.0613	
13948	.300	5991.0	.68	5.05	.0390	.0179	.0028	-.0000	-.0120	-.0226	

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TEST	24	MACH	Q	RUN 126	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
TP			PA	ALPHA2	DEG							
NUM		NUMB										
13933		.300	5985.5	.67	5.06	.0048	.0052	.0048	-.0001	-.0130	-.0152	.0008
13934		.301	6014.0	-1.95	4.81	-.0165	.0061	-.0169	.0006	-.0102	-.0121	.0006
13935		.300	6005.6	.76	5.05	.0054	.0056	.0054	-.0001	-.0135	-.0158	.0008
13936		.300	5981.3	3.83	5.11	.0396	.0073	.0384	-.0010	-.0125	-.0148	.0012
13937		.300	5973.5	7.86	4.88	.0955	.0180	.0901	-.0023	-.0118	-.0147	.0014
13938		.300	5985.0	11.68	5.07	.1529	.0358	.1441	-.0036	-.0118	-.0157	.0020
13939		.300	5993.1	15.77	5.01	.2221	.0659	.2105	-.0049	-.0115	-.0159	.0036
13940		.300	5984.0	19.82	5.03	.2960	.1078	.2848	-.0064	-.0114	-.0169	.0062
13941		.300	5996.5	23.66	5.39	.3459	.1499	.3430	-.0085	-.0132	-.0219	.0069
13942		.300	5978.8	27.71	5.40	.3693	.1880	.3899	-.0091	-.0157	-.0300	.0058
13943		.300	5996.1	31.77	5.39	.4003	.2368	.4435	-.0111	-.0176	-.0356	.0068
13944		.301	6018.7	35.80	5.25	.4228	.2879	.4921	-.0141	-.0192	-.0396	.0081
13945		.300	5994.3	39.68	5.08	.4398	.3410	.5386	-.0150	-.0179	-.0384	.0084
13946		.301	6014.0	43.65	5.51	.4472	.3945	.5851	-.0178	-.0186	-.0402	.0060
13947		.300	5997.8	47.71	5.63	.4423	.4441	.6276	-.0204	-.0188	-.0424	.0029
13948		.300	5991.0	.61	5.06	.0049	.0058	.0046	-.0001	-.0135	-.0157	.0009

TEST	24	MACH	Q	RUN 126	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		NUMB	PA	ALPHA2	DEG							
NUM				DEG	DEG							
13933	.300	5985.5	.67	5.05	.0049	.0052	.0048	.0000	-.0130	-.0152	.0002	
13934	.301	6014.0	-1.95	4.81	-.0167	.0056	-.0169	.0002	-.0102	-.0121	.0002	
13935	.300	6005.6	.76	5.05	.0055	.0055	.0054	.0000	-.0135	-.0158	.0002	
13936	.300	5981.3	3.83	5.11	.0400	.0046	.0384	-.0002	-.0125	-.0148	.0003	
13937	.300	5973.5	7.86	4.88	.0971	.0048	.0901	-.0006	-.0120	-.0147	.0004	
13938	.300	5985.0	11.68	5.07	.1569	.0041	.1441	-.0011	-.0123	-.0152	.0005	
13939	.300	5993.1	15.77	5.01	.2316	.0031	.2105	-.0016	-.0125	-.0159	.0009	
13940	.300	5984.0	19.82	5.03	.3150	.0010	.2848	-.0022	-.0129	-.0169	.0015	
13941	.300	5996.5	23.66	5.39	.3770	-.0015	.3430	-.0025	-.0154	-.0219	.0016	
13942	.300	5978.8	27.71	5.40	.4144	-.0053	.3899	-.0008	-.0161	-.0300	.0013	
13943	.300	5996.1	31.77	5.39	.4650	-.0094	.4435	-.0002	-.0209	-.0356	.0015	
13944	.301	6018.7	35.80	5.25	.5114	-.0138	.4921	-.0002	-.0238	-.0396	.0018	
13945	.300	5994.3	39.68	5.08	.5562	-.0184	.5386	-.0001	-.0233	-.0384	.0018	
13946	.301	6014.0	43.65	5.51	.5959	-.0232	.5851	-.0001	-.0258	-.0402	.0012	
13947	.300	5997.8	47.71	5.63	.6261	-.0284	.6276	.0002	-.0277	-.0424	.0004	
13948	.300	5991.0	.61	5.06	.0049	.0058	.0046	.0000	-.0135	-.0157	.0002	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 127							
TP		MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS
MUM		NUMB	PA	DEG	DEG						CDC
13949	.300	5991.8	.46	-5.06	.0004	.0179	.0007	.0006	.0102	.0214	.0081
13950	.300	5997.7	-1.85	-4.90	-.0837	.0194	-.0058	-.0014	.0085	.0178	.0071
13951	.300	6001.0	.63	-4.86	.0070	.0154	.0018	.0007	.0096	.0197	.0078
13952	.300	5997.2	4.10	-5.09	.2091	.0283	.0195	.0041	.0102	.0192	.0077
13953	.300	6007.1	7.95	-4.85	.4484	.0702	.0415	.0075	.0092	.0176	.0076
13954	.300	5984.1	11.84	-4.80	.6858	.1469	.0618	.0083	.0081	.0184	.0077
13955	.299	5967.5	15.92	-5.01	.9799	.2776	.0856	.0108	.0084	.0175	.0082
13956	.300	5986.3	19.74	-5.01	1.1859	.4177	.1288	.0018	.0141	.0104	.0089
13957	.300	5975.4	23.66	-5.02	1.3112	.5862	.1367	-.0108	.0374	-.0212	.0109
13958	.300	5977.5	27.75	-4.75	1.3218	.6887	.1544	.0032	.0393	-.0309	.0111
13959	.301	6017.2	31.86	-4.80	1.3794	.8489	.1778	.0099	.0429	-.0185	.0121
13960	.300	6001.0	35.54	-4.85	1.4037	.9911	.1980	.0176	.0375	-.0077	.0134
13961	.299	5966.3	39.84	-4.89	1.3949	1.1459	.2327	.0222	.0232	.0095	.0153
13962	.300	5974.8	43.68	-4.94	1.3633	1.2788	.2596	.0219	.0095	.0360	.0187
13963	.303	6106.3	47.66	-4.83	1.2974	1.3927	.2758	.0227	.0060	.0707	.0213
13964	.302	6049.1	.58	-4.90	.0074	.0169	.0021	.0005	.0101	.0199	.0080

TEST	24			RUN 127							
TP		MACH	Q	ALPHA	BETA	CN	CA	CM	CRM	CYM	CY
MUM		NUMB	PA	DEG	DEG						
13949	.300	5991.8	.46	-5.06	.0006	.0179	.0007	.0005	.0102	.0214	
13950	.300	5997.7	-1.85	-4.90	-.0843	.0167	-.0058	-.0011	.0086	.0178	
13951	.300	6001.0	.63	-4.86	.0072	.0153	.0018	.0006	.0096	.0197	
13952	.300	5997.2	4.10	-5.09	.2106	.0133	.0195	.0034	.0104	.0192	
13953	.300	6007.1	7.95	-4.85	.4538	.0073	.0415	.0062	.0102	.0176	
13954	.300	5984.1	11.84	-4.80	.7013	.0030	.0618	.0065	.0096	.0184	
13955	.299	5967.5	15.92	-5.01	1.0184	-.0019	.0856	.0081	.0111	.0175	
13956	.300	5986.3	19.74	-5.01	1.2573	-.0073	.1188	-.0031	.0139	.0104	
13957	.300	5975.4	23.66	-5.02	1.4283	-.0077	.1367	-.0249	.0299	-.0212	
13958	.300	5977.5	27.75	-4.75	1.4904	-.0059	.1544	-.0155	.0362	-.0309	
13959	.301	6017.2	31.86	-4.80	1.6197	-.0071	.1778	-.0142	.0417	-.0185	
13960	.300	6001.0	35.54	-4.85	1.7183	-.0095	.1980	-.0075	.0407	-.0077	
13961	.299	5966.3	39.84	-4.89	1.8052	-.0139	.2327	.0022	.0320	.0095	
13962	.300	5974.8	43.68	-4.94	1.8692	-.0167	.2596	.0093	.0220	.0360	
13963	.303	6106.3	47.66	-4.83	1.9833	-.0209	.2758	.0109	.0208	.0707	
13964	.302	6049.1	.58	-4.90	.0076	.0168	.0021	.0004	.0101	.0199	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 127							
TP		MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2
MUM		NUMB	PA	DEG	DEG						CDC2
13949	.300	5991.8	.52	-5.06	.0012	.0058	.0014	.0002	.0132	.0154	.0008
13950	.300	5997.7	-1.78	-4.92	-.0147	.0059	-.0152	-.0003	.0106	.0126	.0008
13951	.300	6001.0	.70	-4.86	.0027	.0056	.0029	.0002	.0123	.0145	.0006
13952	.300	5997.2	4.17	-5.04	.0415	.0085	.0405	.0014	.0127	.0146	.0013
13953	.300	6007.1	8.02	-4.75	.0946	.0182	.0899	.0026	.0116	.0137	.0018
13954	.300	5984.1	11.91	-4.65	.1518	.0362	.1437	.0039	.0112	.0140	.0025
13955	.299	5967.5	15.99	-4.80	.2251	.0677	.2134	.0056	.0114	.0155	.0045
13956	.300	5986.3	19.80	-4.76	.2868	.1052	.2778	.0070	.0108	.0161	.0064
13957	.300	5975.4	23.72	-4.72	.3410	.1484	.3392	.0082	.0119	.0203	.0067
13958	.300	5977.5	27.80	-4.41	.3649	.1863	.3848	.0084	.0131	.0254	.0059
13959	.301	6017.2	31.91	-4.41	.3963	.2359	.4399	.0110	.0171	.0354	.0074
13960	.300	6001.0	35.59	-4.42	.4176	.2825	.4853	.0130	.0177	.0375	.0084
13961	.299	5966.3	39.89	-4.41	.4368	.3413	.5375	.0140	.0172	.0379	.0079
13962	.300	5974.8	43.73	-4.43	.4444	.3935	.5863	.0148	.0166	.0398	.0058
13963	.303	6106.3	47.70	-4.28	.4369	.4392	.6262	.0188	.0186	.0520	.0025
13964	.302	6049.1	.65	-4.69	.0029	.0057	.0032	.0002	.0130	.0152	.0007

TEST	24			RUN 127							
TP		MACH	Q	ALPHA2	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2
MUM		NUMB	PA	DEG	DEG						CDC2
13949	.300	5991.8	.52	-5.06	.0012	.0058	.0014	.0001	.0132	.0154	.0002
13950	.300	5997.7	-1.78	-4.92	-.0149	.0054	-.0152	-.0003	.0106	.0126	.0002
13951	.300	6001.0	.70	-4.86	.0027	.0056	.0029	.0001	.0123	.0145	.0002
13952	.300	5997.2	4.17	-5.04	.0420	.0055	.0405	.0005	.0127	.0146	.0003
13953	.300	6007.1	8.02	-4.75	.0962	.0049	.0899	.0010	.0118	.0137	.0004
13954	.300	5984.1	11.91	-4.65	.1560	.0041	.1437	.0015	.0117	.0140	.0006
13955	.299	5967.5	15.99	-4.80	.2350	.0031	.2134	.0023	.0125	.0155	.0010
13956	.300	5986.3	19.80	-4.76	.3074	.0012	.2778	.0029	.0125	.0161	.0015
13957	.300	5975.4	23.72	-4.72	.3719	-.0013	.3392	.0027	.0142	.0203	.0016
13958	.300	5977.5	27.80	-4.41	.4097	-.0054	.3848	.0013	.0155	.0254	.0014
13959	.301	6017.2	31.91	-4.41	.4611	-.0092	.4399	.0003	.0203	.0354	.0017
13960	.300	6001.0	35.59	-4.42	.5040	-.0133	.4853	.0003	.0220	.0375	.0019
13961	.299	5966.3	39.89	-4.41	.5541	-.0182	.5375	-.0003	.0222	.0379	.0018
13962	.300	5974.8	43.73	-4.43	.5931	-.0226	.5863	-.0007	.0222	.0398	.0012
13963	.303	6106.3	47.70	-4.28	.6188	-.0276	.6262	-.0011	.0264	.0520	.0004
13964	.302	6049.1	.65	-4.69	.0029	.0056	.0032	.0001	.0130	.0152	.0002

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24 NUM	MACH NUM	0 PA	RUN 129 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
14024	.299	5980.5	-4.42	-0.00	-0.0190	.0185	-.0021	.0011	-.0014	.0019	.0057	
14025	.300	5981.0	-4.12	.00	-.1906	.0325	-.0174	.0015	-.0011	.0044	.0057	
14026	.300	5984.8	-2.16	.01	-.0840	.0222	-.0077	.0010	-.0011	.0044	.0057	
14028	.300	5984.0	-.64	.00	-.0120	.0188	-.0012	.0009	-.0013	.0029	.0057	
14029	.300	5977.0	2.11	-0.00	.1274	.0214	.0105	.0008	-.0014	.0009	.0057	
14030	.300	5990.2	3.99	-0.00	.2186	.0283	.0192	.0013	-.0015	.0006	.0058	
14031	.299	5956.2	5.84	-0.00	.3499	.0473	.0308	.0012	-.0019	-.0002	.0060	
14032	.300	5994.2	7.82	-0.00	.4736	.0746	.0425	.0019	-.0019	-.0017	.0065	
14033	.300	5981.3	9.83	-0.01	.5866	.1097	.0358	.0018	-.0022	-.0027	.0067	
14034	.300	5985.9	12.07	-0.00	.7365	.1636	.0658	.0011	-.0021	-.0041	.0070	
14035	.299	5959.7	13.86	-0.01	.8889	.2177	.0752	.0017	-.0023	-.0046	.0074	
14036	.300	5984.6	15.90	-0.00	1.0298	.2915	.0891	.0019	-.0021	-.0072	.0078	
14037	.300	5989.6	17.93	-0.01	1.1549	.3682	.1074	.0008	-.0023	-.0076	.0079	
14038	.300	6001.0	19.78	-0.02	1.2323	.4349	.1281	.0013	-.0028	-.0086	.0078	
14039	.299	5955.6	21.76	-0.02	1.2956	.5064	.1530	.0032	-.0036	-.0100	.0079	
14040	.299	5958.7	23.68	.00	1.3116	.5680	.1662	.0018	-.0025	-.0102	.0081	
14041	.301	6025.6	25.65	.21	1.3511	.6432	.1690	.0017	-.0015	-.0158	.0086	
14042	.300	6003.6	27.84	.20	1.3710	.7160	.1783	.0009	-.0014	-.0138	.0094	
14043	.301	6016.4	29.62	.23	1.3990	.7879	.1883	.0010	-.0015	-.0121	.0103	
14044	.299	5953.7	31.52	-0.04	1.4095	.8559	.1986	-.0001	.0008	-.0154	.0111	
14045	.299	5966.2	33.58	-0.05	1.4156	.9296	.2061	-.0002	.0027	-.0196	.0135	
14046	.300	5993.5	35.65	-0.05	1.4208	1.0069	.2143	.0007	.0042	-.0193	.0122	
14047	.301	6020.8	37.52	-0.22	1.4271	1.0822	.2249	.0007	-.0005	-.0145	.0146	
14048	.300	5985.6	39.71	-0.04	1.4186	1.1628	.2370	.0004	-.0004	-.0157	.0160	
14049	.300	5996.7	41.53	-0.10	1.4041	1.2259	.2454	-.0009	-.0021	-.0125	.0173	
14050	.299	5975.7	43.75	-0.04	1.3815	1.3013	.2619	-.0026	-.0052	-.0108	.0193	
14051	.300	5983.7	45.59	-0.03	1.3563	1.3596	.2740	-.0047	-.0083	-.0108	.0205	
14052	.299	5964.1	47.70	-0.01	1.3122	1.4124	.2847	-.0083	-.0111	.0005	.0218	
14053	.300	5997.9	-4.42	.00	-.0185	.0183	-.0019	.0012	-.0015	.0033	.0057	
TEST TP	24 NUM	MACH NUM	0 PA	RUN 129 ALPHA DEG	BETA DEG	CN	CA	CM	CRM	CYM	CY	
14024	.299	5980.5	-4.42	-0.00	-0.0192	.0183	-.0021	.0010	-.0014	.0019		
14025	.300	5981.0	-4.12	.00	-.1924	.0188	-.0174	.0014	-.0012	.0044		
14026	.300	5984.8	-2.16	.01	-.0848	.0190	-.0077	.0010	-.0011	.0044		
14028	.300	5984.0	-.64	.00	-.0122	.0187	-.0012	.0009	-.0013	.0029		
14029	.300	5977.0	2.11	-0.00	.1281	.0167	.0105	.0009	-.0013	.0009		
14030	.300	5990.2	3.99	-0.00	.2201	.0130	.0192	.0014	-.0014	.0006		
14031	.299	5956.2	5.84	-0.00	.3528	.0114	.0308	.0014	-.0018	-.0002		
14032	.300	5994.2	7.82	-0.00	.4794	.0084	.0425	.0021	-.0017	-.0017		
14033	.300	5981.3	9.83	-0.01	.5867	.0079	.0598	.0021	-.0018	-.0027		
14034	.300	5985.9	12.07	-0.00	.7345	.0060	.0658	.0015	-.0016	-.0041		
14035	.299	5959.7	13.86	-0.01	.8958	.0031	.0752	.0022	-.0018	-.0046		
14036	.300	5984.6	15.90	-0.00	1.0703	-.0019	.0891	.0025	-.0015	-.0072		
14037	.300	5989.6	17.93	-0.01	1.2122	-.0051	.1074	.0015	-.0019	-.0076		
14038	.300	6001.0	19.78	-0.02	1.3667	-.0078	.1281	.0021	-.0022	-.0086		
14039	.299	5955.6	21.76	-0.02	1.3910	-.0099	.1550	.0043	-.0021	-.0100		
14040	.299	5958.7	23.68	.00	1.4293	-.0065	.1662	.0026	-.0016	-.0102		
14041	.301	6025.6	25.65	.21	1.4964	-.0051	.1690	.0022	-.0007	-.0158		
14042	.300	6003.6	27.84	.20	1.5467	-.0071	.1783	.0015	-.0008	-.0138		
14043	.301	6016.4	29.62	.23	1.6055	-.0065	.1883	.0016	-.0008	-.0151		
14044	.299	5953.7	31.52	-0.04	1.6490	-.0074	.1986	-.0004	.0006	-.0154		
14045	.299	5966.2	33.58	-0.05	1.6935	-.0085	.2061	-.0016	.0022	-.0196		
14046	.300	5993.5	35.65	-0.05	1.7414	-.0100	.2143	-.0018	.0038	-.0193		
14047	.301	6020.8	37.52	-0.22	1.7910	-.0107	.2249	.0008	.0000	-.0145		
14048	.300	5985.6	39.71	-0.04	1.8342	-.0118	.2370	.0006	-.0000	-.0157		
14049	.300	5996.7	41.53	-0.10	1.8639	-.0132	.2454	.0007	-.0022	-.0125		
14050	.299	5975.7	43.75	-0.04	1.8978	-.0153	.2619	.0018	-.0055	-.0108		
14051	.300	5983.7	45.59	-0.03	1.9204	-.0175	.2740	.0026	-.0092	-.0108		
14052	.299	5964.1	47.70	-0.01	1.9278	-.0200	.2847	.0027	-.0136	.0005		
14053	.300	5997.9	-4.42	.00	-.0187	.0181	-.0019	.0012	-.0015	.0033		

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN 129	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDS2
TP				ALPHA2	DEG							
NUM		NUMS	PA	DEG	DEG							
14024	.299	5960.5	-4.2	-0.01	-0.014	.0053	-.0023	.0000	.0004	.0004	.0004	.0010
14025	.300	5981.0	-4.11	-.05	-.0345	.0082	-.0342	.0001	.0005	.0005	.0005	.0003
14026	.300	5984.8	-2.16	-.02	-.0121	.0061	-.0131	.0001	.0007	.0007	.0009	.0010
14028	.300	5984.0	-.64	-.01	.0009	.0056	-.0001	.0001	.0007	.0007	.0009	.0011
14029	.300	5977.0	2.11	.03	.0259	.0085	.0239	.0001	.0003	.0003	.0004	.0021
14030	.300	5998.2	3.99	.05	.0464	.0082	.0425	.0002	.0003	.0003	.0003	.0031
14031	.299	5956.2	5.84	.07	.0755	.0133	.0690	.0002	.0001	-.0001	.0047	.0047
14032	.300	5994.2	7.82	.10	.1056	.0196	.0967	.0002	.0001	-.0002	.0065	.0065
14033	.300	5981.3	9.83	.12	.1353	.0281	.1240	.0002	.0002	.0000	.0081	.0081
14034	.300	5985.9	12.07	.15	.1730	.0410	.1590	.0002	-.0002	-.0005	.0106	.0106
14035	.299	5959.7	13.86	.17	.2037	.0539	.1876	.0002	-.0001	-.0003	.0130	.0130
14036	.300	5984.6	15.90	.20	.2407	.0721	.2229	.0001	-.0005	-.0012	.0164	.0164
14037	.300	5989.6	17.93	.22	.2772	.0920	.2586	.0001	-.0005	-.0013	.0202	.0202
14038	.300	6001.0	19.78	.23	.3071	.1107	.2691	-.0001	-.0008	-.0018	.0239	.0239
14039	.299	5955.6	21.75	.25	.3373	.1342	.3222	-.0001	-.0008	-.0017	.0273	.0273
14040	.299	5958.7	23.67	.30	.3615	.1565	.3519	-.0001	-.0005	-.0011	.0292	.0292
14041	.301	6025.6	25.65	.33	.3796	.1782	.3791	-.0005	-.0008	-.0020	.0298	.0298
14042	.300	6003.6	27.83	.34	.3914	.1999	.4028	-.0004	-.0008	-.0021	.0299	.0299
14043	.301	6016.4	29.61	.60	.4057	.2215	.4289	-.0006	-.0011	-.0032	.0314	.0314
14044	.299	5953.7	31.52	.35	.4160	.2435	.4517	-.0007	-.0013	-.0032	.0344	.0344
14045	.299	5966.2	33.58	.36	.4249	.2673	.4739	-.0009	-.0014	-.0037	.0368	.0368
14046	.300	5993.5	35.65	.39	.4330	.2926	.4966	-.0007	-.0009	-.0024	.0376	.0376
14047	.301	6020.8	37.52	.23	.4426	.3189	.5209	-.0008	-.0009	-.0023	.0374	.0374
14048	.300	5995.6	39.71	.44	.4496	.3483	.5457	-.0014	-.0015	-.0036	.0362	.0362
14049	.300	5996.7	41.53	.39	.4515	.3702	.5636	-.0018	-.0018	-.0036	.0361	.0361
14050	.299	5975.7	43.75	.47	.4580	.4008	.5910	-.0027	-.0024	-.0046	.0360	.0360
14051	.300	5983.7	45.59	.51	.4567	.4231	.6120	-.0042	-.0036	-.0073	.0347	.0347
14052	.299	5964.1	47.70	.54	.4516	.4485	.6326	-.0043	-.0032	-.0042	.0314	.0314
14053	.300	5997.9	-.42	-.00	-.0015	.0044	-.0027	.0001	.0004	.0008	.0008	.0008

TEST	24	MACH	Q	RUN 129	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP				ALPHA2	DEG							
NUM		NUMS	PA	DEG	DEG							
14024	.299	5960.5	-4.2	-0.01	-0.015	.0053	-.0023	.0000	.0004	.0004	.0004	.0003
14025	.300	5981.0	-4.11	-.05	-.0350	.0057	-.0342	.0001	.0005	.0005	.0005	.0001
14026	.300	5984.8	-2.16	-.02	-.0123	.0057	-.0131	.0001	.0007	.0007	.0009	.0002
14028	.300	5984.0	-.64	-.01	.0008	.0056	-.0001	.0001	.0007	.0007	.0009	.0003
14029	.300	5977.0	2.11	.03	.0261	.0055	.0239	.0001	.0003	.0003	.0004	.0005
14030	.300	5998.2	3.99	.05	.0469	.0050	.0425	.0001	.0003	.0003	.0003	.0008
14031	.299	5956.2	5.84	.07	.0765	.0055	.0690	.0001	.0001	-.0001	.0012	.0012
14032	.300	5994.2	7.82	.10	.1073	.0050	.0967	.0002	.0001	-.0002	.0017	.0017
14033	.300	5981.3	9.83	.12	.1381	.0046	.1240	.0002	.0002	.0000	.0021	.0021
14034	.300	5985.9	12.07	.15	.1778	.0039	.1590	.0002	-.0001	-.0005	.0027	.0027

14035	.299	5959.7	13.86	.17	.2107	.0036	.1876	.0002	-.0000	-.0003	.0033	.0033
14036	.300	5984.6	15.90	.20	.2513	.0033	.2229	.0002	-.0004	-.0012	.0042	.0042
14037	.300	5989.6	17.93	.22	.2921	.0022	.2586	.0003	-.0005	-.0013	.0052	.0052
14038	.300	6001.0	19.78	.23	.3264	.0003	.2891	.0002	-.0008	-.0018	.0061	.0061
14039	.299	5955.6	21.75	.25	.3630	-.0004	.3222	.0002	-.0007	-.0017	.0070	.0070
14040	.299	5958.7	23.67	.30	.3939	-.0019	.3519	.0001	-.0005	-.0011	.0075	.0075
14041	.301	6025.6	25.65	.33	.4193	-.0037	.3791	-.0001	-.0010	-.0020	.0077	.0077
14042	.300	6003.6	27.83	.34	.4394	-.0060	.4028	.0000	-.0009	-.0021	.0077	.0077
14043	.301	6016.4	29.61	.60	.4622	-.0079	.4289	.0000	-.0013	-.0032	.0081	.0081
14044	.299	5953.7	31.52	.35	.4819	-.0100	.4517	.0000	-.0015	-.0032	.0089	.0089
14045	.299	5966.2	33.58	.36	.5018	-.0123	.4739	.0000	-.0017	-.0037	.0095	.0095
14046	.300	5993.5	35.65	.39	.5224	-.0146	.4966	-.0001	-.0011	-.0024	.0097	.0097
14047	.301	6020.8	37.52	.23	.5453	-.0166	.5209	-.0001	-.0012	-.0023	.0096	.0096
14048	.300	5995.6	39.71	.44	.5684	-.0192	.5457	-.0001	-.0021	-.0036	.0093	.0093
14049	.300	5996.7	41.53	.39	.5835	-.0222	.5636	-.0001	-.0025	-.0036	.0093	.0093
14050	.299	5975.7	43.75	.47	.6066	-.0258	.5910	-.0003	-.0036	-.0046	.0093	.0093
14051	.300	5983.7	45.59	.51	.6232	-.0288	.6120	-.0003	-.0055	-.0073	.0089	.0089
14052	.299	5964.1	47.70	.54	.6357	-.0322	.6326	-.0005	-.0053	-.0042	.0081	.0081
14053	.300	5997.9	-.42	-.00	-.0016	.0044	-.0027	.0001	.0004	.0008	.0002	.0002

NASA LANGLEY				7 X 10 HIGH SPEED TUNNEL								
TEST	24			RUN 132								
TP	MACH	Q		ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMB	PA		DEG	DEG							
14126	.301	6023.3		.51	4.87	.0220	.0165	.0005	-.0084	.0235	-.0733	.0076
14127	.300	6002.9		-2.56	4.92	-.1290	.0216	-.0046	-.0054	.0181	-.0571	.0068
14128	.301	6014.8		.55	4.86	.0243	.0168	.0001	-.0085	.0235	-.0715	.0075
14129	.301	6012.3		3.76	4.98	.2082	.0263	.0045	-.0087	.0236	-.0699	.0077
14130	.300	5993.1		7.89	5.01	.4348	.0665	.0064	-.0077	.0221	-.0677	.0077
14131	.300	5970.3		12.11	5.04	.6582	.1445	.0106	-.0035	.0192	-.0704	.0080
14132	.300	5983.3		15.92	5.14	.7987	.2334	.0167	.0024	.0115	-.0657	.0082
14133	.299	5964.3		19.77	4.75	.8699	.3227	.0095	.0018	-.0011	-.0420	.0084
14134	.299	5954.5		23.80	4.95	.9382	.4271	.0027	-.0031	-.0105	-.0340	.0100
14135	.300	5971.2		27.95	5.08	1.0326	.5590	-.0087	-.0084	-.0036	-.0572	.0112
14136	.300	6000.3		31.85	4.99	1.1055	.6940	-.0244	-.0149	.0128	-.0667	.0131
14137	.300	5988.6		35.74	4.82	1.1506	.8272	-.0209	-.0154	.0135	-.0751	.0157
14138	.300	6002.8		39.74	4.77	1.1609	.9579	.0009	-.0164	.0036	-.0788	.0196
14139	.300	5987.6		43.65	5.19	1.1513	1.0847	.0177	-.0225	-.0087	-.0734	.0216
14140	.300	5978.0		47.31	5.16	1.1234	1.1973	.0322	-.0236	-.0100	-.0755	.0230
14141	.301	6037.3		.55	4.98	.0314	.0169	.0007	-.0081	.0224	-.0632	.0074

TEST	24			RUN 132						
TP	MACH	Q	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY
NUM	NUMB	PA	DEG	DEG						
14126	.301	6023.3	.51	4.87	-.0222	.0163	.0005	-.0086	.0234	-.0733
14127	.300	6002.9	-2.56	4.92	-.1299	.0158	-.0046	-.0046	.0183	-.0571
14128	.301	6014.8	.55	4.86	.0245	.0166	.0001	-.0087	.0234	-.0715
14129	.301	6012.3	3.76	4.98	.2095	.0126	.0045	-.0102	.0230	-.0699
14130	.300	5993.1	7.89	5.01	.4398	.0062	.0064	-.0107	.0208	-.0677
14131	.300	5970.3	12.11	5.04	.6739	.0031	.0106	-.0074	.0180	-.0704
14132	.300	5983.3	15.92	5.14	.8321	.0054	.0167	-.0009	.0117	-.0657
14133	.299	5964.3	19.77	4.75	.9278	.0095	.0055	.0020	-.0005	-.0420
14134	.299	5954.5	23.80	4.95	1.0307	.0122	.0027	.0014	-.0108	-.0340
14135	.300	5971.2	27.95	5.08	1.1741	.0097	-.0087	-.0057	-.0071	-.0572
14136	.300	6000.3	31.85	4.99	1.3052	.0060	-.0244	-.0154	.0030	-.0667
14137	.300	5988.6	35.74	4.82	1.4171	-.0008	-.0209	-.0204	.0020	-.0751
14138	.300	6002.8	39.74	4.77	1.5051	-.0057	.0009	-.0149	-.0077	-.0788
14139	.300	5987.6	43.65	5.19	1.5818	-.0096	.0177	-.0103	-.0218	-.0734
14140	.300	5978.0	47.31	5.16	1.6417	-.0139	.0322	-.0086	-.0241	-.0755
14141	.301	6037.3	.55	4.98	.0315	.0166	.0007	-.0083	.0223	-.0632

NASA LANGLEY					7 X 10 HIGH SPEED TUNNEL							
TEST	24			RUN 132								
TP	MACH	Q		ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
NUM	NUMB	PA	DEG	DEG								
14126	.301	6023.3	.44	4.88	.0015	.0049	.0018	-.0001	-.0136	-.0164	.0003	
14127	.300	6002.9	-2.62	4.89	-.0117	.0053	-.0143	.0005	-.0113	-.0137	.0003	
14128	.301	6014.8	.49	4.87	.0015	.0052	.0018	-.0001	-.0136	-.0163	.0003	
14129	.301	6012.3	3.70	5.03	.0204	.0064	.0238	-.0008	-.0133	-.0160	.0007	
14130	.300	5993.1	7.82	5.11	.0477	.0113	.0529	-.0017	-.0128	-.0162	.0015	
14131	.300	5970.3	12.05	5.20	.0812	.0222	.0872	-.0028	-.0134	-.0182	.0033	
14132	.300	5983.3	15.86	5.34	.1124	.0361	.1210	-.0040	-.0142	-.0203	.0048	
14133	.299	5964.3	19.71	5.00	.1353	.0508	.1487	-.0045	-.0128	-.0190	.0045	
14134	.299	5954.5	23.74	5.25	.1603	.0710	.1820	-.0058	-.0140	-.0228	.0048	
14135	.300	5971.2	27.89	5.43	.1814	.0923	.2126	-.0075	-.0160	-.0291	.0015	
14136	.300	6000.3	31.80	5.38	.1979	.1117	.2408	-.0093	-.0162	-.0312	.0013	
14137	.300	5988.6	35.69	5.26	.2163	.1387	.2702	-.0116	-.0170	-.0343	.0050	
14138	.300	6002.8	39.69	5.25	.2403	.1769	.3093	-.0148	-.0190	-.0415	.0065	
14139	.300	5987.6	43.60	5.71	.2584	.2166	.3475	-.0196	-.0216	-.0498	.0063	
14140	.300	5978.0	47.26	5.71	.2710	.2557	.3851	-.0215	-.0210	-.0499	.0051	
14141	.301	6037.3	.48	4.99	.0022	.0046	.0025	-.0001	-.0128	-.0150	.0002	

TEST	24			RUN 132							
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG							
14126	.301	6023.3	.44	4.88	.0015	.0049	.0018	.0000	-.0136	-.0164	.0001
14127	.300	6002.9	-2.62	4.89	-.0119	.0047	-.0143	-.0000	-.0113	-.0137	.0001
14128	.301	6014.8	.49	4.87	.0015	.0051	.0018	.0000	-.0136	-.0163	.0001
14129	.301	6012.3	3.70	5.03	.0208	.0051	.0238	.0001	-.0133	-.0160	.0002
14130	.300	5993.1	7.82	5.11	.0488	.0047	.0529	.0000	-.0129	-.0162	.0004
14131	.300	5970.3	12.05	5.20	.0840	.0047	.0872	.0001	-.0137	-.0182	.0008
14132	.300	5983.3	15.86	5.34	.1180	.0040	.1210	.0000	-.0148	-.0203	.0012
14133	.299	5964.3	19.71	5.00	.1445	.0022	.1487	.0001	-.0135	-.0190	.0011
14134	.299	5954.5	23.74	5.25	.1753	.0005	.1820	.0004	-.0152	-.0228	.0006
14135	.300	5971.2	27.89	5.43	.2035	-.0033	.2126	.0008	-.0176	-.0291	.0003
14136	.300	6000.3	31.80	5.38	.2270	-.0093	.2408	.0006	-.0187	-.0312	.0002
14137	.300	5988.6	35.69	5.26	.2566	-.0135	.2702	.0006	-.0206	-.0343	.0010
14138	.300	6002.8	39.69	5.25	.2879	-.0174	.3093	.0007	-.0241	-.0415	.0014
14139	.300	5987.6	43.60	5.71	.3365	-.0213	.3475	.0007	-.0292	-.0498	.0014
14140	.300	5978.0	47.26	5.71	.3718	-.0255	.3851	.0008	-.0301	-.0499	.0011
14141	.301	6037.3	.48	4.99	.0023	.0045	.0025	.0000	-.0128	-.0150	.0001

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## 7 X 10 HIGH SPEED TUNNEL

WASH CRUISE												
TEST	24			RUN 133	BETA	CL	CD	CRS	CRMS	CYMS	CYS	CDC
TP		NACH	Q	ALPHA	DEG							
NUM		NUMB	PA		DEG							
14156	.299	5950.4	.29	-4.86	-0.118	.0164	-.0031	.0099	-.0280	.0723	.0075	
14157	.300	6002.7	-1.80	-5.02	-.0775	.0180	-.0033	.0079	-.0232	.0639	.0069	
14158	.300	6004.1	.41	-4.90	-.0849	.0163	-.0028	.0099	-.0279	.0727	.0075	
14159	.300	6007.2	3.79	-5.07	.1798	.0236	.0020	.0105	-.0291	.0713	.0077	
14160	.300	5979.4	7.94	-4.91	.4318	.0669	.0052	.0160	-.0288	.0719	.0080	
14161	.299	5963.4	11.78	-4.86	.6327	.1364	.0087	.0059	-.0263	.0696	.0081	
14162	.299	5970.5	15.73	-4.91	.7861	.2258	.0167	.0007	-.0187	.0643	.0083	
14163	.300	5983.5	19.88	-5.02	.8628	.3234	.0009	.0003	-.0021	.0411	.0091	
14164	.300	6003.3	23.64	-4.91	.9289	.4153	-.0071	.0053	.0051	.0333	.0098	
14165	.299	5973.8	27.70	-4.99	1.0158	.5437	-.0062	.0110	.0054	.0437	.0111	
14166	.300	6000.2	31.70	-5.09	1.0881	.6784	-.0192	.0182	-.0059	.0391	.0131	
14167	.300	6006.6	35.73	-4.86	1.1549	.8292	-.0182	.0190	-.0118	.0485	.0158	
14168	.301	6013.9	39.59	-4.99	1.1553	.9481	.0028	.0190	-.0012	.0347	.0192	
14169	.300	5980.6	43.51	-4.89	1.1473	1.0746	.0240	.0125	.0006	.0173	.0217	
14170	.300	5982.9	47.61	-5.00	1.1139	1.1956	.0484	.0028	-.0059	.0283	.0232	
14171	.300	5980.1	.42	-4.87	.0011	.0173	-.0024	.0100	-.0278	.0755	.0074	

TEST 24	TP	NACH	Q	RUN 133	BETA	CM	CA	CM	CRM	CYM	CY
		NUMB	PA	ALPHA	DEG						
14156	.299	5950.4	.29	-4.86	-.0117	.0165	-.0031	.0101	-.0280	.0723	
14157	.300	6002.7	-1.80	-5.02	-.0780	.0155	-.0033	.0071	-.0235	.0639	
14158	.300	6004.1	.41	-4.90	-.0046	.0163	-.0028	.0100	-.0278	.0727	
14159	.300	6007.2	3.79	-5.07	.1810	.0117	.0020	.0124	-.0283	.0713	
14160	.300	5979.4	7.94	-4.91	.4369	.0066	.0052	.0139	-.0271	.0719	
14161	.299	5963.4	11.78	-4.86	.6472	.0044	.0087	.0112	-.0245	.0696	
14162	.299	5970.5	15.73	-4.91	.8179	.0042	.0167	.0057	-.0178	.0643	
14163	.300	5983.5	19.88	-5.02	.9213	.0107	.0009	.0010	-.0019	.0411	
14164	.300	6003.3	23.64	-4.99	1.0101	.0112	-.0071	.0028	.0067	.0333	
14165	.299	5973.8	27.70	-4.99	1.1521	.0093	-.0062	.0072	.0099	.0437	
14166	.300	6000.2	31.70	-5.09	1.2823	.0054	-.0192	.0186	.0045	.0391	
14167	.300	6006.6	35.73	-4.86	1.4217	-.0012	-.0182	.0223	.0015	.0485	
14168	.301	6013.9	39.59	-4.99	1.4945	-.0057	.0028	.0154	.0112	.0347	
14169	.300	5980.6	43.51	-4.89	1.5720	-.0106	.0240	.0087	.0091	.0173	
14170	.300	5982.9	47.61	-5.00	1.6339	-.0166	.0484	.0060	-.0016	.0283	
14171	.300	5980.1	.42	-4.87	.0013	.0173	-.0024	.0102	-.0277	.0755	

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NASA LAUGLEY												
TEST 24		Q		RUN 133	BETA2	CL2	CD2	CM2	CRM2	CYM2	CYS2	CDC2
TP	NACH	PA	DEG	ALPHA2	DEG							
NUM	NUMB											
14156	.299	5952.4	.35	-4.85	-.0007	.0045	-.0009	.0001	.0131	.0153	.0003	
14157	.300	6002.7	-1.73	-5.04	-.0056	.0041	-.0070	-.0003	.0115	.0137	.0003	
14158	.300	6004.1	.47	-4.89	.0004	.0045	.0005	.0001	.0133	.0155	.0004	
14159	.300	6007.2	3.66	-5.02	.0190	.0051	.0224	.0008	.0128	.0148	.0006	
14160	.300	5979.4	8.00	-4.81	.0486	.0111	.0538	.0018	.0129	.0157	.0019	
14161	.299	5963.4	11.84	-4.71	.0768	.0206	.0852	.0028	.0127	.0163	.0036	
14162	.299	5970.5	15.79	-4.71	.1105	.0350	.1188	.0039	.0135	.0188	.0050	
14163	.300	5983.5	19.94	-4.77	.1371	.0517	.1517	.0050	.0137	.0208	.0043	
14164	.300	6003.3	23.70	-4.61	.1551	.0653	.1784	.0061	.0140	.0233	.0024	
14165	.299	5973.8	27.75	-4.64	.1799	.0852	.2112	.0080	.0158	.0292	.0001	
14166	.300	6000.2	31.75	-4.43	.1977	.1113	.2404	.0093	.0151	.0277	.0006	
14167	.300	6006.6	35.78	-4.37	.2185	.1416	.2741	.0102	.0144	.0289	.0041	
14168	.301	6013.9	39.64	-4.37	.2387	.1763	.3081	.0102	.0129	.0268	.0055	
14169	.300	5980.6	43.56	-4.44	.2586	.2178	.3500	.0059	.0070	.0143	.0055	
14170	.300	5982.9	47.65	-4.44	.2746	.2626	.3947	.0028	.0038	.0078	.0045	
14171	.300	5980.1	.48	-4.87	.0004	.0049	.0003	.0001	.0128	.0147	.0003	

TEST	24	NACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		NUMB	PA	DEG	DEG							
14156	.299	5950.4	.35	-4.85	-.0007	.0045	-.0009	.0000	.0132	.0153	.0001	
14157	.300	6002.7	-1.73	-5.04	-.0058	.0039	-.0070	.0000	.0116	.0137	.0001	
14158	.300	6004.1	.47	-4.89	.0005	.0045	.0005	.0000	.0133	.0155	.0001	
14159	.300	6007.2	3.66	-5.02	.0193	.0038	.0224	-.0000	.0128	.0148	.0002	
14160	.300	5979.4	8.00	-4.81	.0497	.0042	.0538	.0000	.0130	.0157	.0004	
14161	.299	5963.4	11.84	-4.71	.0814	.0039	.0852	.0001	.0130	.0163	.0008	
14162	.299	5970.5	15.79	-4.71	.1159	.0036	.1188	.0001	.0140	.0188	.0011	
14163	.300	5983.5	19.94	-4.77	.1465	.0019	.1517	.0001	.0146	.0208	.0010	
14164	.300	6003.3	23.70	-4.61	.1695	.0002	.1764	-.0001	.0152	.0233	.0005	
14165	.299	5973.8	27.75	-4.64	.1920	-.0025	.2112	-.0003	.0177	.0292	-.0001	
14166	.300	6000.2	31.75	-4.43	.2266	-.0094	.2404	-.0001	.0178	.0277	.0000	
14167	.300	6006.6	35.78	-4.43	.2601	-.0128	.2741	-.0001	.0177	.0289	.0013	
14168	.301	6013.9	39.64	-4.37	.2962	-.0165	.3081	-.0004	.0165	.0268	.0013	
14169	.300	5980.6	43.56	-4.44	.3375	-.0204	.3500	-.0006	.0091	.0143	.0010	
14170	.300	5982.9	47.65	-4.44	.3790	-.0260	.3947	-.0009	.0046	.0078	.0010	
14171	.300	5980.1	.48	-4.87	.0004	.0049	.0003	-.0000	.0128	.0147	.0001	



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 134 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
14184	.300	6011.3	.68	4.85	.0312	.0157	.0006	-.0002	-.0114	-.0266	.0079
14185	.300	6000.5	-1.98	5.03	-.0956	.0188	-.0036	.0028	-.0095	-.0202	.0068
14186	.300	5987.1	.65	4.90	.0292	.0158	.0009	-.0002	-.0116	-.0256	.0079
14187	.301	6028.2	4.02	5.12	.2245	.0267	.0053	-.0026	-.0116	-.0277	.0079
14188	.300	5979.7	7.84	4.99	.4366	.0851	.0076	-.0038	-.0109	-.0298	.0076
14189	.301	6016.2	11.82	4.79	.6467	.1378	.0117	-.0026	-.0105	-.0349	.0078
14190	.299	5969.1	15.99	4.90	.7898	.2288	.0185	.0012	-.0144	-.0348	.0082
14191	.300	6012.2	19.82	4.73	.8675	.3213	.0050	-.0007	-.0215	-.0233	.0093
14192	.300	6000.4	23.86	4.82	.9338	.4238	.0026	-.0349	-.0209	-.0262	.0102
14193	.300	5987.6	27.86	4.65	1.0212	.5486	-.0070	-.0071	-.0878	-.0538	.0113
14194	.299	5972.7	31.83	5.09	1.1028	.6908	-.0267	-.0173	.0083	-.0623	.0134
14195	.299	5968.9	35.82	5.23	1.1571	.8280	-.0216	-.0190	.0104	-.0816	.0164
14196	.299	5977.6	39.51	4.89	1.1609	.9491	-.0045	-.0189	.0058	-.0846	.0200
14197	.298	5983.3	43.69	4.80	1.1536	1.0871	.0190	-.0193	-.0089	-.0814	.0216
14198	.298	5936.4	47.49	5.20	1.1219	1.2013	.0331	-.0212	-.0097	-.0843	.0228
14199	.300	5994.8	.65	4.86	.0325	.0173	.0012	-.0000	-.0114	-.0243	.0078

TEST TP NUM	24 MACH NUMB	Q PA	RUN 134 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
14184	.300	6011.3	.68	4.85	.0314	.0133	.0006	-.0000	-.0114	-.0266
14185	.300	6000.5	-1.98	5.03	-.0962	.0155	-.0036	.0024	-.0095	-.0202
14186	.300	5987.1	.65	4.90	.0294	.0154	.0009	-.0000	-.0116	-.0256
14187	.301	6028.2	4.02	5.12	.2258	.0189	.0053	-.0018	-.0117	-.0277
14188	.300	5979.7	7.84	4.99	.4414	.0049	.0076	-.0023	-.0113	-.0298
14189	.301	6016.2	11.82	4.79	.6412	.0024	.0117	-.0004	-.0109	-.0349
14190	.299	5969.1	15.99	4.90	.8223	.0024	.0185	.0051	-.0135	-.0348
14191	.300	6012.2	19.82	4.73	.9231	.0081	.0050	.0067	-.0204	-.0233
14192	.300	6000.4	23.86	4.82	1.0254	.0098	.0026	.0039	-.0211	-.0262
14193	.300	5987.6	27.86	4.65	1.1592	.0077	-.0070	-.0026	-.0102	-.0338
14194	.299	5972.7	31.83	5.09	1.3013	.0053	-.0267	-.0190	-.0021	-.0623
14195	.299	5968.9	35.82	5.23	1.4228	-.0009	-.0216	-.0215	-.0026	-.0816
14196	.299	5977.6	39.51	4.89	1.4995	-.0063	-.0045	-.0183	-.0078	-.0846
14197	.300	5983.3	43.69	4.80	1.5850	-.0107	.0190	-.0078	-.0197	-.0814
14198	.298	5936.4	47.49	5.20	1.6437	-.0152	.0331	-.0072	-.0222	-.0843
14199	.300	5994.8	.65	4.86	.0327	.0170	.0012	.0001	-.0114	-.0243

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 134 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
14184	.300	6011.3	.62	4.86	.0021	.0046	.0026	-.0001	-.0136	-.0165	.0004
14185	.300	6000.5	-2.05	5.01	-.0085	.0050	-.0107	.0004	-.0111	-.0136	.0003
14186	.300	5987.1	.59	4.91	.0024	.0048	.0029	-.0001	-.0137	-.0165	.0003
14187	.301	6028.2	3.95	5.17	.0217	.0060	.0251	-.0009	-.0139	-.0171	.0009
14188	.300	5979.7	7.77	5.10	.0475	.0108	.0525	-.0017	-.0130	-.0168	.0017
14189	.301	6016.2	11.75	4.95	.0798	.0211	.0856	-.0026	-.0128	-.0174	.0032
14190	.299	5969.1	15.92	5.10	.1105	.0354	.1188	-.0037	-.0133	-.0191	.0044
14191	.300	6012.2	19.76	4.98	.1350	.0507	.1486	-.0045	-.0129	-.0194	.0042
14192	.300	6000.4	23.80	5.12	.1594	.0701	.1807	-.0055	-.0134	-.0216	.0028
14193	.300	5987.6	27.81	5.00	.1800	.0911	.2106	-.0066	-.0141	-.0256	.0013
14194	.299	5972.7	31.77	5.49	.1969	.1107	.2397	-.0093	-.0161	-.0305	.0011
14195	.299	5968.9	35.56	5.66	.2180	.1392	.2718	-.0125	-.0184	-.0373	.0051
14196	.299	5977.6	39.46	5.36	.2387	.1741	.3065	-.0149	-.0191	-.0415	.0062
14197	.300	5983.3	43.64	5.32	.2594	.2178	.3493	-.0187	-.0206	-.0481	.0061
14198	.298	5936.4	47.44	5.75	.2721	.2579	.3877	-.0211	-.0204	-.0483	.0047
14199	.300	5994.8	.59	4.87	.0020	.0047	.0024	-.0001	-.0135	-.0164	.0003

TEST TP NUM	24 MACH NUMB	Q PA	RUN 134 ALPHA2 DEG	BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	COC2
14184	.300	6011.3	.62	4.86	.0021	.0046	.0026	.0000	-.0136	-.0165	.0001
14185	.300	6000.5	-2.05	5.01	-.0087	.0047	-.0107	-.0000	-.0111	-.0136	.0001
14186	.300	5987.1	.59	4.91	.0024	.0048	.0029	.0000	-.0137	-.0165	.0001
14187	.301	6028.2	3.95	5.17	.0221	.0045	.0231	.0001	-.0139	-.0171	.0002
14188	.300	5979.7	7.77	5.10	.0486	.0042	.0525	.0001	-.0131	-.0168	.0004
14189	.301	6016.2	11.75	4.95	.0824	.0044	.0856	.0001	-.0130	-.0174	.0008
14190	.299	5969.1	15.92	5.10	.1159	.0038	.1188	.0001	-.0138	-.0191	.0011
14191	.300	6012.2	19.76	4.98	.1442	.0020	.1486	.0001	-.0136	-.0194	.0010
14192	.300	6000.4	23.80	5.12	.1741	-.0002	.1807	.0004	-.0145	-.0216	.0006
14193	.300	5987.6	27.81	5.00	.2017	-.0034	.2106	.0007	-.0156	-.0256	.0002
14194	.299	5972.7	31.77	5.49	.2257	-.0096	.2397	.0005	-.0186	-.0305	.0001
14195	.299	5968.9	35.56	5.66	.2583	-.0136	.2718	.0006	-.0222	-.0373	.0010
14196	.299	5977.6	39.46	5.36	.2949	-.0173	.3065	.0007	-.0242	-.0415	.0013
14197	.300	5983.3	43.64	5.32	.3381	-.0214	.3493	.0007	-.0274	-.0481	.0013
14198	.298	5936.4	47.44	5.75	.3740	-.0260	.3877	.0007	-.0293	-.0483	.0010
14199	.300	5994.8	.59	4.87	.0021	.0047	.0024	.0000	-.0135	-.0164	.0001

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	RUN 135									
TP	MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMB	PA	DEG	DEG							
14200	.300	6006.2	.36	-4.87	-.0070	.0168	.0004	.0004	.0102	.0174	.0080
14201	.300	6005.2	-1.96	-5.01	-.0865	.0179	-.0013	-.0015	.0087	.0167	.0072
14202	.300	5994.0	.37	-4.86	-.0081	.0156	.0003	.0003	.0100	.0160	.0079
14203	.300	5991.2	4.00	-5.03	.1925	.0296	.0056	.0035	.0099	.0177	.0078
14204	.301	6022.9	7.74	-5.08	.4214	.0633	.0083	.0060	.0109	.0167	.0078
14205	.299	5978.6	11.92	-5.00	.6384	.1385	.0116	.0048	.0107	.0187	.0079
14206	.300	5991.9	15.80	-5.04	.7782	.2221	.0196	.0018	.0135	.0185	.0082
14207	.299	5967.4	19.96	-4.75	.8646	.3245	.0031	.0036	.0236	.0028	.0097
14208	.301	6033.0	23.93	-5.04	.9334	.4266	-.0059	.0084	.0214	.0138	.0104
14209	.299	5979.9	27.58	-4.76	1.0102	.5378	-.0051	.0120	.0104	.0350	.0110
14210	.301	6052.4	31.85	-4.79	1.0738	.6728	-.0160	.0176	-.0035	.0263	.0131
14211	.300	5999.2	35.80	-5.04	1.1502	.8280	-.0192	.0214	-.0118	.0488	.0161
14212	.300	5990.8	39.63	-5.07	1.1527	.9459	-.0043	.0186	-.0109	.0502	.0192
14213	.300	6012.3	43.49	-5.17	1.1411	1.0677	.0228	.0096	-.0084	.0458	.0219
14214	.300	6006.8	47.47	-5.08	1.1079	1.1832	.0434	.0034	-.0102	.0450	.0230
14215	.300	6011.9	.37	-4.84	-.0037	.0163	.0004	.0006	.0102	.0175	.0080

TEST	24			RUN 135							
TP	MACH	Q	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM	NUMB	PA	DEG	DEG							
14200	.300	6006.2	.36	-4.87	-.0069	.0168	.0004	.0003	.0102	.0174	
14201	.300	6005.2	-1.96	-5.01	-.0871	.0149	-.0013	-.0012	.0087	.0167	
14202	.300	5994.0	.37	-4.86	-.0080	.0156	.0003	.0002	.0100	.0180	
14203	.300	5991.2	4.00	-5.03	.1938	.0109	.0056	.0028	.0101	.0177	
14204	.301	6022.9	7.74	-5.08	.4262	.0065	.0083	.0045	.0116	.0167	
14205	.299	5978.6	11.92	-5.00	.6533	.0036	.0116	.0024	.0115	.0187	
14206	.300	5991.9	15.80	-5.04	.8092	.0017	.0196	-.0019	.0135	.0185	
14207	.299	5967.4	19.96	-4.75	.9234	.0098	.0031	-.0047	.0234	.0028	
14208	.301	6033.0	23.93	-5.04	1.0262	.0114	-.0059	-.0010	.0230	.0138	
14209	.299	5979.9	27.58	-4.76	1.1444	.0090	-.0051	.0058	.0147	.0350	
14210	.301	6052.4	31.85	-4.79	1.2672	.0047	-.0160	.0168	.0063	.0263	
14211	.300	5999.2	35.80	-5.04	1.4172	-.0012	-.0192	.0243	.0029	.0402	
14212	.300	5990.8	39.63	-5.07	1.4911	-.0067	-.0043	.0213	.0035	.0502	
14213	.300	6012.3	43.49	-5.17	1.5627	-.0109	.0228	.0128	.0005	.0458	
14214	.300	6006.8	47.47	-5.08	1.6209	-.0167	.0434	.0098	-.0044	.0450	
14215	.300	6011.9	.37	-4.84	-.0036	.0164	.0004	.0005	.0102	.0175	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 135							
TP	MACH	Q	ALPHA2	BETA2	CL2	CD2	CM52	CRM52	CYM52	CY52	CDB2
NUM	NUMB	PA	DEG	DEG							
14200	.300	6006.2	.42	-4.87	.0004	.0049	.0004	.0001	.0126	.0144	.0003
14201	.300	6005.2	-1.90	-5.03	-.0076	.0046	-.0095	-.0003	.0106	.0122	.0003
14202	.300	5994.0	.43	-4.85	-.0001	.0049	-.0000	.0001	.0125	.0144	.0003
14203	.300	5991.2	4.06	-4.98	.0223	.0059	.0258	.0009	.0122	.0140	.0007
14204	.301	6022.9	7.81	-4.98	.0470	.0109	.0525	.0018	.0129	.0153	.0019
14205	.299	5978.6	11.99	-4.85	.0789	.0212	.0853	.0028	.0126	.0160	.0037
14206	.300	5991.9	15.87	-4.84	.1079	.0342	.1159	.0036	.0129	.0176	.0050
14207	.299	5967.4	20.02	-4.50	.1363	.0520	.1507	.0047	.0127	.0190	.0046
14208	.301	6033.0	23.99	-4.74	.1575	.0709	.1798	.0065	.0147	.0244	.0023
14209	.299	5979.9	27.63	-4.41	.1781	.0910	.2091	.0077	.0152	.0281	.0002
14210	.301	6052.4	31.91	-4.39	.1951	.1109	.2375	.0085	.0136	.0243	.0004
14211	.300	5999.2	35.85	-4.60	.2163	.1407	.2718	.0109	.0156	.0308	.0044
14212	.300	5990.8	39.68	-4.60	.2344	.1727	.3032	.0115	.0147	.0306	.0054
14213	.300	6012.3	43.54	-4.66	.2559	.2152	.3465	.0090	.0106	.0230	.0058
14214	.300	6006.8	47.52	-4.53	.2692	.2564	.3860	.0066	.0073	.0164	.0050
14215	.300	6011.9	.43	-4.83	.0003	.0049	.0005	.0001	.0126	.0143	.0003

TEST	24			RUN 135							
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	COC2
NUM	NUMB	PA	DEG	DEG							
14200	.300	6006.2	.42	-4.87	.0004	.0049	.0004	.0000	.0126	.0144	.0001
14201	.300	6005.2	-1.90	-5.03	-.0076	.0044	-.0095	.0000	.0106	.0122	.0001
14202	.300	5994.0	.43	-4.85	-.0000	.0049	-.0000	.0000	.0125	.0144	.0001
14203	.300	5991.2	4.06	-4.98	.0227	.0043	.0258	-.0000	.0122	.0140	.0002
14204	.301	6022.9	7.81	-4.98	.0481	.0044	.0525	.0000	.0130	.0153	.0005
14205	.299	5978.6	11.99	-4.85	.0816	.0044	.0853	.0001	.0129	.0160	.0009
14206	.300	5991.9	15.87	-4.84	.1131	.0034	.1159	.0001	.0134	.0176	.0012
14207	.299	5967.4	20.02	-4.50	.1459	.0022	.1507	.0001	.0136	.0190	.0011
14208	.301	6033.0	23.99	-4.74	.1727	.0007	.1798	-.0001	.0161	.0244	.0005
14209	.299	5979.9	27.63	-4.41	.2000	-.0020	.2091	-.0003	.0170	.0281	-.0000
14210	.301	6052.4	31.91	-4.39	.2242	-.0089	.2375	.0000	.0160	.0243	-.0000
14211	.300	5999.2	35.85	-4.60	.2577	-.0127	.2718	-.0003	.0190	.0308	.0010
14212	.300	5990.8	39.68	-4.60	.2907	-.0167	.3032	-.0005	.0187	.0306	.0013
14213	.300	6012.3	43.54	-4.66	.3337	-.0203	.3465	-.0008	.0139	.0230	.0014
14214	.300	6006.8	47.52	-4.53	.3709	-.0253	.3860	-.0010	.0098	.0164	.0012
14215	.300	6011.9	.43	-4.83	.0004	.0049	.0005	.0000	.0126	.0143	.0001

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP	24	MACH	Q	RUN 136	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUM	PA	DEG	DEG									
14227	.301	6030.7	-42	.00	-0196	.0175	-.0013	.0011	-.0017	.0028	.0037		
14228	.300	6009.3	-3.96	-.00	-.1783	.0297	-.0062	.0013	-.0013	.0044	.0058		
14229	.301	6022.9	-2.00	.01	-.0776	.0206	-.0033	.0009	-.0017	.0046	.0057		
14230	.301	6029.6	-.63	.00	-.0093	.0178	-.0009	.0010	-.0016	.0019	.0057		
14231	.300	6009.8	2.13	.01	.1274	.0203	.0028	.0013	-.0020	.0008	.0057		
14232	.301	6029.1	3.78	.00	.1942	.0253	.0046	.0011	-.0020	.0001	.0058		
14233	.300	6005.2	5.93	.01	.3391	.0448	.0075	.0016	-.0020	-.0018	.0062		
14234	.300	5996.6	7.76	.01	.4453	.0689	.0088	.0014	-.0021	-.0032	.0065		
14235	.300	5995.5	9.85	.01	.5922	.1023	.0117	.0007	-.0021	-.0037	.0069		
14236	.300	6007.6	11.81	.01	.6393	.1374	.0141	.0007	-.0022	-.0038	.0073		
14237	.300	5993.6	13.75	.01	.7191	.1783	.0205	.0009	-.0023	-.0046	.0075		
14238	.300	5990.3	15.97	.04	.7897	.2333	.0182	.0010	-.0023	-.0064	.0075		
14239	.300	6016.7	17.76	.01	.8344	.2761	.0101	.0013	-.0027	-.0067	.0075		
14240	.300	5985.5	19.78	-.01	.8810	.3282	.0005	.0021	-.0037	-.0062	.0075		
14241	.300	5991.9	21.70	.04	.9028	.3749	-.0043	.0036	-.0063	.0004	.0089		
14242	.300	5988.9	23.64	.03	.9163	.4169	-.0039	.0023	-.0022	-.0030	.0098		
14243	.301	6035.4	25.91	.01	.9253	.4784	-.0036	.0025	-.0031	-.0040	.0107		
14244	.302	6035.3	27.68	.00	.9979	.5360	-.0076	.0029	-.0006	-.0123	.0130		
14245	.301	6036.2	29.62	.02	1.0432	.6030	-.0085	.0025	-.0049	-.0196	.0130		
14246	.301	6036.2	31.84	.01	1.0720	.6715	-.0085	.0019	.0065	-.0214	.0138		
14247	.300	6008.2	33.67	.00	1.1057	.7399	-.0087	.0018	.0005	-.0141	.0152		
14248	.299	5964.8	35.59	.03	1.1444	.8195	-.0065	.0012	-.0031	-.0067	.0166		
14249	.300	6015.9	37.72	.02	1.1509	.8860	-.0023	.0012	-.0034	-.0068	.0188		
14250	.300	6014.9	39.50	.03	1.1641	.9533	.0065	.0012	-.0016	-.0127	.0201		
14251	.300	6019.0	41.58	.03	1.1923	1.0114	.0138	.0005	-.0012	-.0166	.0217		
14252	.299	5958.1	43.50	.06	1.1622	1.0697	.0229	-.0017	-.0031	-.0231	.0227		
14253	.300	6011.3	45.58	-.04	1.1517	1.1577	.0327	-.0063	-.0076	-.0231	.0233		
14254	.301	6049.4	47.67	.19	1.1356	1.2234	.0428	-.0119	-.0106	-.0335	.0233		
14255	.301	6027.1	-.40	-.00	-.0161	.0175	-.0012	.0008	-.0018	.0036	.0057		

TEST TP	24	MACH	Q	RUN 136	ALPHA	BETA	CN	CA	CM	CRM	CYM	CY
NUM	NUM	PA	DEG	DEG								
14227	.301	6030.7	-42	.00	-.0197	.0173	-.0013	.0010	-.0018	.0028	.0037	
14228	.300	6009.3	-3.96	-.00	-.1800	.0173	-.0062	.0012	-.0014	.0044	.0058	
14229	.301	6022.9	-2.00	.01	-.0785	.0179	-.0033	.0009	-.0018	.0046	.0057	
14230	.301	6029.6	-.63	.00	-.0095	.0177	-.0009	.0010	-.0017	.0019	.0057	
14231	.300	6009.8	2.13	.01	.1281	.0159	.0028	.0014	-.0020	.0008	.0057	
14232	.301	6029.1	3.78	.00	.1955	.0124	.0046	.0012	-.0019	.0001	.0058	
14233	.300	6005.2	5.93	.01	.3419	.0695	.0075	.0018	-.0021	-.0032	.0065	
14234	.300	5996.6	7.76	.01	.4505	.0880	.0088	.0017	-.0018	-.0037	.0069	
14235	.300	5995.5	9.85	.01	.5616	.0063	.0117	.0011	-.0020	-.0037	.0073	
14236	.300	6007.6	11.81	.01	.6538	.0037	.0141	.0011	-.0020	-.0038	.0075	
14237	.300	5993.6	13.75	.01	.7409	.0023	.0205	.0014	-.0020	-.0046	.0075	
14238	.300	5990.3	15.97	.04	.8234	.0071	.0182	.0016	-.0019	-.0064	.0075	
14239	.300	6016.7	17.76	.01	.8788	.0084	.0101	.0021	-.0022	-.0067	.0075	
14240	.300	5985.5	19.78	-.01	.9401	.0108	.0005	.0033	-.0027	-.0042	.0075	
14241	.300	5991.9	21.70	.04	.9774	.0144	-.0043	.0057	-.0045	-.0004	.0089	
14242	.300	5988.9	23.64	.03	1.0066	.0145	-.0039	.0030	-.0011	-.0030	.0098	
14243	.301	6035.4	25.91	.01	1.0683	.0128	-.0036	.0036	-.0016	-.0040	.0107	
14244	.302	6035.3	27.68	.02	1.1327	.0111	-.0076	.0028	-.0008	-.0123	.0130	
14245	.301	6036.2	29.62	.01	1.2049	.0085	-.0085	.0003	.0035	-.0196	.0130	
14246	.301	6036.2	31.84	.00	1.2649	.0051	-.0085	-.0018	.0065	-.0214	.0138	
14247	.300	6008.2	33.67	.00	1.3304	.0027	-.0087	.0012	.0014	-.0141	.0152	
14248	.299	5964.8	35.59	.03	1.4075	.0005	-.0065	.0028	-.0018	-.0067	.0166	
14249	.300	6015.9	37.72	.02	1.4324	-.0033	-.0023	.0031	-.0019	-.0068	.0188	
14250	.300	6014.9	39.50	.03	1.5047	-.0049	.0065	.0019	-.0005	-.0127	.0201	
14251	.300	6019.0	41.58	.03	1.5332	-.0082	.0138	.0011	-.0006	-.0166	.0217	
14252	.299	5958.1	43.50	.06	1.5932	-.0097	.0229	.0009	-.0034	-.0231	.0227	
14253	.300	6011.3	45.58	-.04	1.6329	-.0124	.0327	.0010	-.0098	-.0231	.0233	
14254	.301	6049.4	47.67	.19	1.6692	-.0156	.0428	-.0002	-.0160	-.0335	.0233	
14255	.301	6027.1	-.40	-.00	-.0162	.0174	-.0012	.0007	-.0018	.0036	.0057	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 136								
TP	NACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRM2	CYMS2	CYS2	CD2	
NUM	NUM	PA	DEG	DEG								
14227	.301	6030.7	-.42	-.00	-.0014	.0044	-.0021	-.0000	.0003	.0003	.0001	
14228	.300	6009.3	-0.96	-.05	-.0184	.0059	-.0214	-.0000	.0004	.0002	-.0003	
14229	.301	6022.9	-2.00	-.02	-.0066	.0046	-.0084	-.0000	.0005	.0005	-.0001	
14230	.301	6029.6	-.62	-.01	-.0002	.0046	-.0008	.0000	.0002	.0000	.0002	
14231	.300	6009.8	2.13	.03	.0142	.0054	.0157	.0000	.0003	.0001	.0008	
14232	.301	6029.1	3.78	.05	.0219	.0055	.0238	.0000	.0001	.0001	.0015	
14233	.300	6005.2	5.93	.09	.0396	.0089	.0423	.0000	.0001	-.0001	.0032	
14234	.300	5996.6	7.78	.11	.0542	.0124	.0569	.0000	-.0001	-.0004	.0047	
14235	.300	5995.5	9.85	.14	.0711	.0173	.0739	.0000	-.0000	-.0002	.0064	
14236	.300	6007.6	11.81	.16	.0848	.0224	.0879	.0000	-.0001	-.0003	.0081	
14237	.300	5993.6	13.74	.19	.1007	.0296	.1044	.0000	-.0001	-.0003	.0097	
14238	.300	5990.3	15.97	.23	.1188	.0393	.1249	-.0000	-.0003	-.0007	.0109	
14239	.300	6016.7	17.76	.24	.1287	.0457	.1366	-.0000	-.0002	-.0006	.0112	
14241	.300	5985.5	19.78	.25	.1411	.0542	.1519	.0000	-.0001	-.0003	.0115	
14242	.300	5991.9	21.70	.31	.1522	.0611	.1675	.0001	.0000	.0002	.0110	
14243	.300	5988.6	23.64	.33	.1616	.0720	.1812	.0002	.0003	.0012	.0106	
14244	.301	6033.4	27.68	.35	.1738	.0841	.1989	.0004	.0004	.0014	.0106	
14245	.302	6085.3	29.62	.39	.1817	.0926	.2115	.0004	-.0002	.0000	.0109	
14246	.301	6036.2	31.83	.41	.1926	.1041	.2276	.0003	-.0002	-.0007	.0117	
14247	.300	6008.2	33.67	.42	.2013	.1165	.2419	-.0002	-.0007	-.0019	.0124	
14248	.299	5964.8	35.59	.47	.2113	.1290	.2571	-.0004	-.0009	-.0021	.0150	
14249	.300	6015.9	37.72	.48	.2242	.1461	.2761	-.0000	-.0003	-.0003	.0207	
14250	.300	6014.9	39.50	.51	.2454	.1816	.3111	-.0006	-.0004	-.0004	.0239	
14251	.300	6019.0	41.58	.53	.2514	.1984	.3254	-.0015	-.0018	-.0016	.0257	
14252	.299	5958.1	43.50	.58	.2648	.2220	.3505	-.0034	-.0037	-.0036	.0263	
14253	.300	6011.3	45.58	.49	.2749	.2449	.3739	-.0063	-.0061	-.0146	.0267	
14254	.301	6049.4	47.66	.75	.2823	.2678	.3968	-.0109	-.0098	-.0247	.0260	
14255	.301	6027.1	-.40	-.01	-.0810	.0039	-.0015	.0000	.0003	-.0001	.0001	

TEST	24			RUN 136								
TP	NACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYH2	CY2	CD2	
NUM	NUM	PA	DEG	DEG								
14227	.301	6030.7	-.42	-.00	-.0014	.0044	-.0021	-.0000	.0003	.0003	.0000	
14228	.300	6009.3	-0.96	-.05	-.0188	.0046	-.0214	-.0000	.0004	.0002	-.0001	
14229	.301	6022.9	-2.00	-.02	-.0069	.0046	-.0084	-.0000	.0005	.0005	-.0000	
14230	.301	6029.6	-.62	-.01	-.0004	.0046	-.0008	.0000	.0002	.0000	.0001	
14231	.300	6009.8	2.13	.03	.0144	.0048	.0157	.0000	.0003	.0001	.0002	
14232	.301	6029.1	3.78	.05	.0222	.0041	.0238	.0000	.0001	.0001	.0004	
14233	.300	6005.2	5.93	.09	.0403	.0048	.0423	.0000	.0001	-.0001	.0008	
14234	.300	5996.6	7.78	.11	.0554	.0049	.0569	.0000	-.0001	-.0004	.0011	
14235	.300	5995.5	9.85	.14	.0730	.0049	.0739	.0000	-.0000	-.0002	.0016	
14236	.300	6007.6	11.81	.16	.0876	.0046	.0879	.0000	-.0001	-.0003	.0021	
14237	.300	5993.6	13.74	.19	.1048	.0048	.1044	.0000	-.0001	-.0003	.0025	
14238	.300	5990.3	15.97	.23	.1250	.0051	.1249	.0000	-.0003	-.0007	.0028	
14239	.300	6016.7	17.76	.24	.1365	.0043	.1366	.0001	-.0002	-.0006	.0029	
14240	.300	5985.5	19.78	.25	.1511	.0032	.1519	.0001	-.0001	-.0003	.0029	
14241	.300	5991.9	21.70	.31	.1648	.0024	.1675	.0001	.0000	.0002	.0026	
14242	.300	5988.6	23.64	.33	.1769	.0012	.1812	.0001	.0004	.0012	.0027	
14243	.301	6033.4	25.91	.34	.1931	-.0004	.1989	.0002	.0005	.0014	.0027	
14244	.302	6085.3	27.68	.35	.2039	-.0024	.2115	.0004	.0000	.0000	.0028	
14245	.302	6036.2	29.62	.39	.2189	-.0047	.2276	.0004	-.0001	-.0007	.0030	
14246	.301	6036.2	31.83	.41	.2325	-.0072	.2419	.0002	-.0007	-.0019	.0032	
14247	.300	6008.2	33.67	.42	.2474	-.0098	.2571	.0001	-.0010	-.0021	.0038	
14248	.299	5964.8	35.59	.47	.2673	-.0117	.2761	.0002	-.0003	-.0003	.0053	
14249	.300	6015.9	37.72	.48	.2832	-.0140	.2907	.0001	-.0001	.0004	.0061	
14250	.300	6014.9	39.50	.51	.3049	-.0159	.3111	.0001	-.0011	-.0016	.0066	
14251	.300	6019.0	41.58	.53	.3197	-.0184	.3254	.0001	-.0023	-.0036	.0068	
14252	.299	5958.1	43.50	.58	.3449	-.0213	.3505	.0000	-.0050	-.0083	.0069	
14253	.300	6011.3	45.58	.49	.3673	-.0250	.3739	-.0000	-.0088	-.0146	.0069	
14254	.301	6049.4	47.66	.75	.3881	-.0283	.3968	-.0001	-.0147	-.0247	.0067	
14255	.301	6027.1	-.40	-.01	-.0010	.0039	-.0015	.0000	.0003	-.0001	.0000	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 139								
TP	MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC	
NUM	NUMS	PA	DEG	DEG								
14331	.300	6052.2	.60	4.77	.0311	.0173	.0019	-.0086	.0236	-.0757	.0075	
14332	.300	6049.1	-1.98	4.96	-.1053	.0219	-.0201	-.0051	.0184	-.0594	.0067	
14333	.300	6045.8	.70	4.88	.0380	.0173	.0033	-.0089	.0241	-.0765	.0075	
14334	.301	6056.4	3.95	4.81	.2371	.0299	.0350	-.0102	.0241	-.0725	.0076	
14335	.300	6035.9	7.85	5.08	.4881	.0757	.0759	-.0113	.0242	-.0754	.0076	
14336	.300	6030.1	12.10	4.91	.8087	.1781	.1313	-.0127	.0241	-.0755	.0080	
14337	.300	6026.7	15.99	4.91	1.0791	.3072	.1801	-.0137	.0238	-.0728	.0083	
14338	.300	6031.2	20.03	5.11	1.3795	.4942	.2444	-.0111	.0224	-.0729	.0084	
14339	.300	6037.4	23.91	5.10	1.5316	.6667	.2896	.0066	-.0054	-.0362	.0095	
14340	.300	6034.9	27.82	4.89	1.6423	.8549	.3237	.0196	-.0648	.0271	.0119	
14341	.299	6015.2	31.77	4.92	1.8268	.9935	.3734	-.0066	-.0737	.0388	.0132	
14342	.299	6011.1	35.68	4.96	1.6388	1.1584	.4127	-.0226	-.0763	.0181	.0140	
14343	.301	6077.7	39.79	5.07	1.6431	1.3459	.4552	-.0342	-.0551	-.0233	.0146	
14344	.301	6057.2	43.75	4.80	1.5551	1.4633	.4582	-.0323	-.0292	-.0251	.0173	
14345	.300	6038.7	.69	4.75	.0425	.0185	.0039	-.0081	.0211	-.0659	.0072	

TEST	24			RUN 139							
TP	MACH	Q	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM	NUMS	PA	DEG	DEG							
14331	.300	6052.2	.60	4.77	.0312	.0170	.0019	-.0089	.0235	-.0757	
14332	.300	6049.1	-1.98	4.96	-.1060	.0183	-.0201	-.0044	.0185	-.0594	
14333	.300	6045.8	.70	4.88	.0382	.0169	.0033	-.0092	.0240	-.0765	
14334	.301	6056.4	3.95	4.91	.2386	.0135	.0350	-.0118	.0234	-.0725	
14335	.300	6035.9	7.85	5.08	.4549	.0084	.0759	-.0145	.0224	-.0754	
14336	.300	6030.1	12.10	4.91	.8281	.0047	.1313	-.0174	.0209	-.0755	
14337	.300	6026.7	15.99	4.91	1.1219	-.0019	.1801	-.0198	.0191	-.0728	
14338	.300	6031.2	20.03	5.11	1.4693	-.0081	.2444	-.0181	.0173	-.0729	
14339	.300	6037.4	23.91	5.10	1.6704	-.0114	.2896	.0083	-.0023	-.0362	
14340	.300	6034.9	27.82	4.89	1.8514	-.0123	.3237	.0476	-.0481	.0271	
14341	.299	6015.2	31.77	4.92	1.9062	-.0118	.3734	.0332	-.0661	.0388	
14342	.299	6011.1	35.68	4.96	2.0068	-.0149	.4127	.0261	-.0752	.0151	
14343	.301	6077.7	39.79	5.07	2.1239	-.0176	.4552	.0090	-.0642	-.0233	
14344	.301	6057.2	43.75	4.80	2.1352	-.0183	.4582	-.0031	-.0434	-.0251	
14345	.300	6038.7	.69	4.75	.0427	.0180	.0039	-.0084	.0210	-.0659	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 139							
TP	MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
NUM	NUMS	PA	DEG	DEG							
14331	.300	6052.2	.53	4.78	.0057	.0063	.0058	-.0000	-.0131	-.0156	.0008
14332	.300	6049.1	-2.04	4.94	-.0309	.0072	-.0282	.0010	-.0104	-.0124	.0007
14333	.300	6045.8	.64	4.89	.0075	.0064	.0075	-.0001	-.0131	-.0155	.0008
14334	.301	6056.4	3.89	4.96	.0667	.0103	.0589	-.0016	-.0124	-.0147	.0009
14335	.300	6035.9	7.78	5.18	.1493	.0253	.1304	-.0036	-.0125	-.0157	.0009
14336	.300	6030.1	12.03	5.07	.2615	.0598	.2306	-.0056	-.0119	-.0160	.0012
14337	.300	6026.7	15.92	5.11	.3570	.1035	.3193	-.0072	-.0110	-.0157	.0025
14338	.300	6031.2	19.96	5.37	.4713	.1697	.4303	-.0099	-.0105	-.0165	.0052
14339	.300	6037.4	23.85	5.41	.5368	.2314	.5114	-.0100	-.0114	-.0197	.0060
14340	.300	6034.9	27.82	5.24	.5806	.2963	.5835	-.0089	-.0157	-.0291	.0073
14341	.299	6015.2	31.71	5.31	.6040	.3583	.6453	-.0117	-.0203	-.0386	.0072
14342	.299	6011.1	35.63	5.39	.6243	.4267	.7039	-.0164	-.0260	-.0515	.0082
14343	.301	6077.7	39.74	5.55	.6419	.5053	.7701	-.0213	-.0291	-.0618	.0079
14344	.301	6057.2	43.70	5.31	.6136	.5503	.7898	-.0182	-.0191	-.0417	.0051
14345	.300	6038.7	.63	4.76	.0075	.0061	.0065	-.0001	-.0119	-.0139	.0007

TEST	24			RUN 139							
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMS	PA	DEG	DEG							
14331	.300	6052.2	.53	4.78	.0057	.0062	.0058	.0001	-.0131	-.0156	.0002
14332	.300	6049.1	-2.04	4.94	-.0311	.0061	-.0282	.0007	-.0105	-.0124	.0002
14333	.300	6045.8	.64	4.89	.0076	.0063	.0075	.0001	-.0131	-.0155	.0002
14334	.301	6056.4	3.89	4.96	.0673	.0058	.0589	-.0008	-.0125	-.0147	.0002
14335	.300	6035.9	7.78	5.18	.1514	.0249	.1304	-.0018	-.0128	-.0157	.0002
14336	.300	6030.1	12.03	5.07	.2682	.0040	.2306	-.0030	-.0128	-.0160	.0003
14337	.300	6026.7	15.92	5.11	.3717	.0015	.3193	-.0039	-.0126	-.0157	.0006
14338	.300	6031.2	19.96	5.37	.5009	-.0014	.4303	-.0057	-.0133	-.0165	.0012
14339	.300	6037.4	23.85	5.41	.5845	-.0055	.5114	-.0046	-.0145	-.0197	.0014
14340	.300	6034.9	27.82	5.24	.6517	-.0089	.5835	-.0086	-.0181	-.0291	.0016
14341	.299	6015.2	31.71	5.31	.7021	-.0126	.6453	.0008	-.0234	-.0386	.0015
14342	.299	6011.1	35.63	5.39	.7560	-.0168	.7039	.0018	-.0306	-.0515	.0018
14343	.301	6077.7	39.74	5.55	.8166	-.0219	.7701	.0022	-.0360	-.0618	.0017
14344	.301	6057.2	43.70	5.31	.8238	-.0260	.7898	.0001	-.0264	-.0417	.0009
14345	.300	6038.7	.63	4.76	.0075	.0060	.0065	.0000	-.0119	-.0139	.0001

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## 7 X 10 HIGH SPEED TUNNEL

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TEST	24	MACH	Q	RUN 140	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
TP		NUMB	PA	ALPHA	DEG							
14346	.300	6042.9	.54	-2.05	-4.98	.0120	.0193	-.0012	.0099	-.0289	.0751	.0073
14347	.300	6047.5	.34	-2.05	-5.04	-.0011	.0217	-.0153	.0074	-.0232	.0656	.0068
14348	.300	6050.4	.34	-2.05	-4.77	-.0059	.0169	-.0041	.0089	-.0261	.0686	.0071
14349	.300	6038.4	3.84	-5.02	-4.77	.2055	.0290	.0297	.0123	-.0300	.0763	.0077
14350	.300	6028.9	7.86	-5.18	-4.76	.4824	.0769	.0771	.0141	-.0325	.0801	.0079
14351	.300	6024.3	11.88	-4.96	-4.76	.7441	.1625	.1832	.0135	-.0303	.0719	.0080
14352	.300	6040.2	16.00	-3.06	-4.76	1.0775	.3095	.2363	.0110	-.0280	.0646	.0085
14353	.300	6047.9	19.97	-4.75	-4.75	1.3358	.4783	.2861	-.0072	.0031	.0149	.0095
14354	.300	6052.6	23.80	-4.67	-4.67	1.5277	.6600	.2861	-.0191	.0689	-.0580	.0123
14355	.300	6034.8	28.00	-5.05	-4.75	1.6420	.8594	.3240	.0066	.0749	-.0662	.0133
14356	.300	6057.2	31.67	-4.76	-4.76	1.6117	.9783	.3650	.0243	.0771	-.0438	.0140
14357	.300	6041.5	35.74	-5.03	-4.75	1.6344	1.1568	.4143	.0362	.0587	-.0141	.0145
14358	.301	6069.0	39.66	-4.73	-4.73	1.6316	1.3292	.4503	.0358	.0288	-.0027	.0171
14359	.301	6061.7	43.60	-5.03	-5.03	1.5554	1.4548	.4583	.0099	-.0288	.0748	.0075
14360	.300	6040.8	.38			-.0006	.0189	-.0015				

TEST	24	MACH	Q	RUN 140	BETA	CN	CA	CM	CRM	CYM	CY
TP		NUMB	PA	ALPHA	DEG						
14346	.300	6042.9	.54	-2.05	-4.98	.0122	.0192	-.0012	.0102	-.0288	.0751
14347	.300	6047.5	.34	-2.05	-5.04	-.0019	.0188	-.0153	.0086	-.0235	.0656
14348	.300	6050.4	.34	-2.05	-4.77	-.0058	.0169	-.0041	.0091	-.0261	.0686
14349	.300	6038.4	3.84	-5.02	-4.77	.2069	.0151	.0297	.0143	-.0291	.0763
14350	.300	6028.9	7.86	-5.18	-4.76	.4884	.0103	.0771	.0184	-.0302	.0801
14351	.300	6024.3	11.88	-4.96	-4.76	.7616	.0039	.1238	.0195	-.0269	.0719
14352	.300	6040.2	16.00	-3.06	-4.76	1.1211	.0005	.1832	.0227	-.0240	.0646
14353	.300	6047.9	19.97	-4.75	-4.75	1.4188	-.0067	.2363	.0199	-.0225	.0606
14354	.300	6052.6	23.80	-4.67	-4.67	1.6642	-.0091	.2861	-.0078	.0519	.0149
14355	.300	6034.8	28.00	-5.05	-4.75	1.8532	-.0119	.3240	-.0492	.0519	-.0580
14356	.300	6057.2	31.67	-4.76	-4.76	2.0023	-.0137	.3650	-.0337	.0672	-.0662
14357	.300	6041.5	35.74	-5.03	-4.75	2.1044	-.0158	.4143	-.0234	.0768	-.0438
14358	.301	6069.0	39.66	-4.73	-4.73	2.1297	-.0182	.4503	-.0096	.0683	-.0141
14359	.301	6061.7	43.60	-5.03	-5.03	2.0005	-.0191	.4583	.0060	.0456	-.0027
14360	.300	6040.8	.38			-.0005	.0190	-.0015	.0101	-.0287	.0748

## 7 X 10 HIGH SPEED TUNNEL

## NASA LANGLEY

TEST	24	MACH	Q	RUN 140	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDC2
TP		NUMB	PA	ALPHA2	DEG							
14346	.300	6042.9	.60	-1.99	-4.97	.0022	.0068	.0021	.0003	.0130	.0152	.0006
14347	.300	6047.5	.40	-1.99	-5.07	-.0244	.0070	-.0220	-.0005	.0114	.0137	.0007
14348	.300	6050.4	.40	-1.99	-4.76	-.0026	.0063	-.0026	.0002	.0119	.0138	.0005
14349	.300	6038.4	3.90	-4.97	-4.76	.0591	.0100	.0521	.0022	.0131	.0158	.0009
14350	.300	6028.9	7.92	-5.08	-4.80	.1510	.0264	.1325	.0044	.0130	.0167	.0011
14351	.300	6024.3	11.94	-4.80	-4.80	.2420	.0549	.2138	.0059	.0114	.0156	.0014
14352	.300	6040.2	16.06	-4.56	-4.80	.3942	.1053	.3218	.0078	.0102	.0151	.0031
14353	.300	6047.9	20.04	-4.45	-4.80	.4562	.1646	.4169	.0096	.0091	.0148	.0053
14354	.300	6052.6	23.74	-4.32	-4.45	.5338	.2285	.5085	.0092	.0097	.0172	.0071
14355	.300	6034.8	28.05	-4.32	-4.45	.5969	.2989	.5345	.0081	.0146	.0272	.0082
14356	.300	6057.2	31.73	-4.66	-4.32	.6241	.3531	.6360	.0108	.0188	.0357	.0078
14357	.300	6041.5	35.79	-4.32	-4.32	.6241	.4283	.7054	.0149	.0243	.0489	.0090
14358	.301	6069.0	39.71	-4.56	-4.32	.6366	.4997	.7643	.0189	.0297	.0560	.0087
14359	.301	6061.7	43.64	-4.21	-4.21	.6147	.5902	.7919	.0165	.0173	.0400	.0056
14360	.300	6040.8	.44	-5.02	-5.02	-.0002	.0067	-.0001	.0003	.0134	.0157	.0006

TEST	24	MACH	Q	RUN 140	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		NUMB	PA	ALPHA2	DEG							
14346	.300	6042.9	.60	-1.99	-4.97	.0022	.0068	.0021	.0002	.0130	.0152	.0001
14347	.300	6047.5	.40	-1.99	-5.07	-.0246	.0062	-.0220	-.0001	.0114	.0137	.0002
14348	.300	6050.4	.40	-1.99	-4.76	-.0026	.0063	-.0026	.0001	.0119	.0138	.0001
14349	.300	6038.4	3.90	-4.97	-4.76	.0596	.0060	.0521	.0013	.0133	.0158	.0002
14350	.300	6028.9	7.92	-5.08	-4.80	.1532	.0053	.1325	.0026	.0135	.0167	.0002
14351	.300	6024.3	11.94	-4.80	-4.80	.2481	.0037	.2138	.0035	.0124	.0156	.0006
14352	.300	6040.2	16.06	-4.56	-4.80	.3743	.0018	.3218	.0047	.0119	.0151	.0012
14353	.300	6047.9	20.04	-4.45	-4.80	.4849	-.0016	.4169	.0059	.0118	.0148	.0015
14354	.300	6052.6	23.74	-4.32	-4.45	.5806	-.0057	.5085	.0045	.0126	.0172	.0018
14355	.300	6034.8	28.05	-4.32	-4.45	.6534	-.0094	.5865	.0003	.0167	.0272	.0017
14356	.300	6057.2	31.73	-4.66	-4.32	.6934	-.0136	.6360	-.0007	.0284	.0489	.0019
14357	.300	6041.5	35.79	-4.32	-4.32	.7567	-.0174	.7054	-.0022	.0319	.0560	.0018
14358	.301	6069.0	39.71	-4.56	-4.32	.8090	-.0223	.7643	-.0019	.0239	.0400	.0011
14359	.301	6061.7	43.64	-4.21	-4.21	.8246	-.0262	.7919	-.0000	.0134	.0437	.0002
14360	.300	6040.8	.44	-5.02	-5.02	-.0001	.0067	-.0001	.0002			

NASA LANGLEY						7 X 10 HIGH SPEED TUNNEL					
TEST	24			RUN 141							
TP	MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM	NUMB	PA	DEG	DEG							
14372	.301	6060.6	.55	4.94	.0358	.0173	.0086	-.0003	-.0114	-.0261	.0079
14373	.301	6064.4	-1.86	5.02	-.0896	.0205	-.0183	.0027	-.0091	-.0192	.0069
14374	.301	6064.2	.62	4.95	.0353	.0161	.0024	-.0003	-.0108	-.0240	.0077
14375	.300	6045.9	3.93	5.00	.2387	.0301	.0339	-.0041	-.0109	-.0246	.0076
14376	.300	6048.5	7.77	4.93	.4872	.0749	.0755	-.0073	-.0098	-.0267	.0071
14377	.300	6037.1	12.09	4.81	.7958	.1746	.1297	-.0107	-.0081	-.0300	.0076
14378	.300	6038.6	16.00	5.06	1.0803	.3074	.1815	-.0148	-.0069	-.0306	.0080
14379	.300	6044.9	19.84	5.01	1.3641	.4822	.2390	-.0164	-.0055	-.0314	.0081
14380	.301	6064.1	23.82	4.95	1.5542	.6733	.2948	.0049	-.0289	-.0074	.0098
14381	.300	6052.4	27.81	4.91	1.6488	.8550	.3194	.0218	-.0555	.0109	.0113
14382	.302	6100.0	31.81	4.82	1.6435	1.0046	.3757	-.0007	-.0496	.0089	.0115
14384	.301	6073.9	35.74	5.20	1.6484	1.1668	.4693	-.0135	-.0533	-.0136	.0117
14385	.301	6084.7	39.72	5.13	1.6485	1.3474	.4936	-.0241	-.0313	-.0477	.0132
14386	.301	6077.9	43.65	5.23	1.5606	1.4622	.4562	-.0269	-.0191	-.0535	.0160
14387	.300	6053.9	.58	4.79	.0385	.0186	.0026	-.0002	-.0109	-.0220	.0077

TEST	24			RUN 141						
TP	MACH	Q	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY
NUM	NUMB	PA	DEG	DEG						
14372	.301	6060.6	.55	4.94	.0359	.0169	.0006	-.0002	-.0114	-.0261
14373	.301	6064.4	-1.86	5.02	-.0902	.0176	-.0183	.0024	-.0092	-.0192
14374	.301	6064.2	.62	4.95	.0354	.0157	.0024	-.0001	-.0108	-.0240
14375	.300	6045.9	3.93	5.00	.2402	.0136	.0339	-.0034	-.0111	-.0246
14376	.300	6048.5	7.77	4.93	.4929	.0083	.0755	-.0059	-.0107	-.0267
14377	.300	6037.1	12.09	4.81	.8147	.0041	.1297	-.0088	-.0101	-.0300
14378	.300	6038.6	16.00	5.06	1.1231	-.0023	.1815	-.0124	-.0107	-.0306
14379	.300	6044.9	19.84	5.01	1.4468	-.0095	.2390	-.0136	-.0107	-.0319
14380	.301	6064.1	23.82	4.95	1.6937	-.0118	.2948	.0162	-.0244	-.0074
14381	.300	6052.4	27.81	4.91	1.8572	-.0128	.3194	.0432	-.0389	.0109
14382	.302	6100.0	31.81	4.82	1.9262	-.0127	.3757	.0256	-.0426	.0089
14384	.301	6073.9	35.74	5.20	2.0195	-.0158	.4093	.0202	-.0512	-.0136
14385	.301	6084.7	39.72	5.13	2.1290	-.0171	.4536	.0015	-.0395	-.0477
14386	.301	6077.9	43.65	5.23	2.1385	-.0192	.4562	-.0063	-.0324	-.0535
14387	.300	6053.9	.58	4.79	.0386	.0182	.0026	-.0001	-.0109	-.0220

NASA LANGLEY					7 X 10 HIGH SPEED TUNNEL						
TEST	24			RUN 141							
TP	MACH	Q		ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2
NUM	NUMB	PA	DEG	DEG	DEG						CDB2
14372	.301	6060.6	.49	4.95	.0051	.0060	.0045	-.0000	-.0134	-.0161	.0008
14373	.301	6064.4	-1.92	4.99	-.0271	.0065	-.0249	.0010	-.0107	-.0128	.0007
14374	.301	6064.2	.55	4.96	.0060	.0054	.0053	-.0001	-.0125	-.0147	.0007
14375	.300	6045.9	3.86	5.05	.0667	.0099	.0583	-.0017	-.0130	-.0156	.0009
14376	.300	6048.5	7.71	5.03	.1488	.0247	.1297	-.0034	-.0123	-.0158	.0008
14377	.300	6037.1	12.02	4.96	.2571	.0584	.2264	-.0053	-.0115	-.0156	.0011
14378	.300	6038.6	15.93	5.26	.3582	.1034	.3199	-.0074	-.0111	-.0158	.0026
14379	.300	6044.9	19.78	5.26	.4622	.1644	.4207	-.0093	-.0101	-.0157	.0049
14380	.301	6064.1	23.76	5.25	.5446	.2338	.5179	-.0095	-.0114	-.0199	.0063
14381	.300	6052.4	27.75	5.25	.5819	.2963	.5830	-.0089	-.0152	-.0284	.0073
14382	.302	6100.0	31.75	5.21	.6103	.3625	.6508	-.0111	-.0185	-.0354	.0075
14384	.301	6073.9	35.68	5.64	.6255	.4283	.7040	-.0166	-.0255	-.0507	.0084
14385	.301	6084.7	39.67	5.61	.6424	.5045	.7692	-.0203	-.0269	-.0568	.0081
14386	.301	6077.9	43.60	5.75	.6146	.5495	.7878	-.0214	-.0229	-.0500	.0055
14387	.300	6053.9	.52	4.80	.0058	.0059	.0049	-.0000	-.0124	-.0146	.0007

TEST	24			RUN 141							
TP	MACH	Q	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG							
14372	.301	6060.6	.49	4.95	.0051	.0060	.0045	.0001	-.0134	-.0161	.0002
14373	.301	6064.4	-1.92	4.99	-.0273	.0056	-.0249	.0006	-.0107	-.0128	.0002
14374	.301	6064.2	.55	4.96	.0060	.0054	.0053	.0001	-.0125	-.0147	.0002
14375	.300	6045.9	3.86	5.05	.0672	.0054	.0583	-.0008	-.0130	-.0156	.0002
14376	.300	6048.5	7.71	5.03	.1508	.0045	.1297	-.0018	-.0126	-.0158	.0002
14377	.300	6037.1	12.02	4.96	.2637	.0036	.2264	-.0028	-.0126	-.0156	.0003
14378	.300	6038.6	15.93	5.26	.3728	.0011	.3199	-.0040	-.0127	-.0158	.0006
14379	.300	6044.9	19.78	5.26	.4906	-.0017	.4207	-.0053	-.0126	-.0157	.0012
14380	.301	6064.1	23.76	5.25	.5927	-.0054	.5179	-.0042	-.0143	-.0199	.0015
14381	.300	6052.4	27.75	5.25	.6529	-.0087	.5830	-.0008	-.0176	-.0284	.0016
14382	.302	6100.0	31.75	5.21	.7097	-.0129	.6508	.0003	-.0216	-.0354	.0016
14384	.301	6073.9	35.68	5.64	.7579	-.0170	.7040	.0014	-.0304	-.0507	.0018
14385	.301	6084.7	39.67	5.61	.8166	-.0217	.7692	.0015	-.0337	-.0568	.0017
14386	.301	6077.9	43.60	5.75	.8240	-.0259	.7878	.0003	-.0313	-.0500	.0011
14387	.300	6053.9	.52	4.80	.0059	.0058	.0049	.0001	-.0124	-.0146	.0002

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN 142	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
TP		NUMB	PA	ALPHA	DEG							
NUM				DEG								
14388	.300	6053.3	.30	-4.90	-0.0002	.0185	-.0033	.0003	.0100	.0192	.0079	
14389	.300	6053.1	-2.02	-4.85	-.0051	.0207	-.0147	-.0022	.0085	.0177	.0072	
14390	.301	6068.2	.35	-4.90	.0013	.0174	-.0029	.0002	.0101	.0195	.0080	
14391	.300	6038.3	4.03	-5.11	.2225	.0301	.0316	.0051	.0105	.0199	.0078	
14392	.301	6062.7	8.08	-4.80	.5044	.0812	.0791	.0092	.0095	.0217	.0072	
14393	.300	6060.5	11.74	-4.98	.7612	.1642	.1259	.0123	.0086	.0217	.0076	
14394	.299	6016.2	15.91	-5.12	1.0712	.3056	.1825	.0170	.0064	.0195	.0080	
14395	.300	6032.4	19.84	-4.86	1.3550	.4817	.2410	.0142	.0060	.0123	.0081	
14396	.300	6048.1	23.84	-5.05	1.5302	.6633	.2889	-.0025	.0274	-.0155	.0095	
14397	.300	6030.2	27.62	-4.80	1.6434	.8449	.3180	-.0202	.0548	-.0360	.0113	
14398	.300	6059.3	31.73	-4.91	1.6301	.9912	.3677	.0015	.0514	-.0370	.0114	
14399	.300	6059.6	35.69	-5.06	1.6511	1.1668	.4112	.0148	.0509	-.0087	.0117	
14400	.300	6051.8	39.63	-4.88	1.6378	1.3323	.4488	.0227	.0319	.0141	.0129	
14401	.299	6014.4	.44	-4.85	.0104	.0183	-.0022	.0002	.0102	.0189	.0079	

TEST	24	MACH	Q	RUN 142	BETA	CM	CA	CM	CRM	CYM	CY	
TP		NUMB	PA	ALPHA	DEG							
NUM				DEG								
14388	.300	6053.3	.30	-4.90	-.0001	.0185	-.0033	.0003	.0100	.0192		
14389	.300	6053.1	-2.02	-4.85	-.0058	.0177	-.0147	-.0019	.0085	.0177		
14390	.301	6068.2	.35	-4.90	.0014	.0174	-.0029	.0001	.0101	.0195		
14391	.300	6038.3	4.03	-5.11	.2241	.0144	.0316	.0043	.0108	.0199		
14392	.301	6062.7	8.08	-4.80	.5108	.0095	.0791	.0078	.0107	.0217		
14393	.300	6060.5	11.74	-4.98	.7787	.0060	.1259	.0103	.0109	.0217		
14394	.299	6016.2	15.91	-5.12	1.1140	.0003	.1825	.0146	.0108	.0195		
14395	.300	6032.4	19.84	-4.86	1.4381	-.0067	.2410	.0113	.0105	.0123		
14396	.300	6048.1	23.84	-5.05	1.6678	-.0117	.2869	-.0134	.0241	-.0155		
14397	.300	6030.2	27.62	-4.80	1.8478	-.0134	.3180	-.0433	.0391	-.0360		
14398	.300	6059.3	31.73	-4.91	1.9078	-.0142	.3677	-.0258	.0445	-.0370		
14399	.300	6059.6	35.69	-5.06	2.0217	-.0155	.4112	-.0177	.0500	-.0087		
14400	.300	6051.8	39.63	-4.88	2.1112	-.0184	.4488	-.0209	.0391	.0141		
14401	.299	6014.4	.44	-4.85	.0105	.0182	-.0022	.0001	.0102	.0189		

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN 142	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
TP		NUMB	PA	ALPHA2	DEG							
NUM				DEG								
14388	.300	6053.3	.37	-4.80	-.0025	.0061	-.0028	.0002	.0129	.0151	.0006	
14389	.300	6053.1	-1.96	-4.88	-.0255	.0065	-.0234	-.0005	.0106	.0124	.0007	
14390	.301	6068.2	.42	-4.90	-.0014	.0062	-.0017	.0002	.0129	.0151	.0007	
14391	.300	6038.3	4.10	-5.06	.0632	.0101	.0555	.0022	.0133	.0162	.0009	
14392	.301	6062.7	8.14	-4.69	.1560	.0271	.1364	.0042	.0124	.0162	.0011	
14393	.300	6060.5	11.80	-4.83	.2470	.0553	.2176	.0060	.0119	.0165	.0015	
14394	.299	6016.2	15.97	-4.92	.3565	.1035	.3187	.0082	.0111	.0164	.0031	
14395	.300	6032.4	19.90	-4.61	.4624	.1698	.4219	.0092	.0088	.0144	.0055	
14396	.300	6048.1	23.89	-4.75	.5348	.2304	.5084	.0094	.0100	.0178	.0070	
14397	.300	6030.2	27.68	-4.45	.5788	.2927	.5787	.0080	.0137	.0259	.0081	
14398	.300	6059.3	31.78	-4.52	.6028	.3572	.6412	.0103	.0172	.0329	.0079	
14399	.300	6059.6	35.74	-4.63	.6272	.4295	.7072	.0148	.0234	.0469	.0092	
14400	.300	6051.8	39.67	-4.41	.6362	.4989	.7602	.0166	.0225	.0486	.0088	
14401	.299	6014.4	.50	-4.84	-.0001	.0061	-.0007	.0003	.0129	.0152	.0006	

TEST	24	MACH	Q	RUN 142	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP		NUMB	PA	ALPHA2	DEG							
NUM				DEG								
14388	.300	6053.3	.37	-4.80	-.0025	.0062	-.0028	.0001	.0129	.0151	.0001	
14389	.300	6053.1	-1.96	-4.88	-.0257	.0056	-.0234	-.0001	.0107	.0124	.0002	
14390	.301	6068.2	.42	-4.90	-.0013	.0062	-.0017	.0001	.0129	.0151	.0002	
14391	.300	6038.3	4.10	-5.06	.0637	.0056	.0555	.0013	.0135	.0162	.0002	
14392	.301	6062.7	8.14	-4.69	.1583	.0047	.1364	.0024	.0128	.0162	.0002	
14393	.300	6060.5	11.80	-4.83	.2531	.0036	.2176	.0035	.0129	.0165	.0003	
14394	.299	6016.2	15.97	-4.92	.3712	.0014	.3187	.0048	.0129	.0164	.0006	
14395	.300	6032.4	19.90	-4.61	.4912	-.0015	.4219	.0056	.0114	.0144	.0013	
14396	.300	6048.1	23.89	-4.75	.5822	-.0050	.5084	.0046	.0129	.0178	.0015	
14397	.300	6030.2	27.68	-4.45	.6485	-.0097	.5787	.0008	.0159	.0259	.0017	
14398	.300	6059.3	31.78	-4.52	.7005	-.0138	.6412	-.0003	.0201	.0329	.0017	
14399	.300	6059.6	35.74	-4.63	.7600	-.0177	.7072	-.0016	.0277	.0469	.0020	
14400	.300	6051.8	39.67	-4.41	.8082	-.0222	.7602	-.0016	.0279	.0486	.0018	
14401	.299	6014.4	.50	-4.84	-.0000	.0061	-.0007	.0002	.0129	.0152	.0002	



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 143 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
14414	.300	6053.9	-1.43	-1.00	-0.0177	.0182	-.0044	.0006	-.0017	.0055	.0057
14415	.301	6069.7	-3.94	-1.01	-0.1872	.0318	-.0327	.0009	-.0016	.0061	.0057
14416	.300	6052.0	-1.91	-1.00	-.0857	.0209	-.0149	.0011	-.0018	.0071	.0057
14417	.301	6077.7	-1.63	-1.00	-.0049	.0189	-.0026	.0010	-.0017	.0064	.0057
14418	.301	6073.2	2.05	-1.01	.1195	.0204	.0162	.0011	-.0020	.0064	.0056
14419	.300	6040.6	4.04	-1.01	.2351	.0307	.0358	.0009	-.0021	.0056	.0057
14420	.300	6033.4	5.84	.00	.3747	.0508	.0591	.0013	-.0022	.0051	.0060
14421	.300	6054.0	7.86	.00	.5070	.0808	.0844	.0015	-.0022	.0044	.0064
14422	.300	6048.4	9.95	-.02	.6318	.1191	.1063	.0018	-.0024	.0050	.0066
14423	.300	6050.5	11.81	-.00	.7759	.1703	.1332	.0020	-.0028	.0038	.0068
14424	.300	6026.0	13.90	-.10	.9130	.2300	.1568	.0024	-.0025	.0048	.0071
14425	.300	6036.1	16.02	-.02	1.0780	.3093	.1868	.0012	-.0019	.0011	.0073
14426	.300	6042.1	17.82	-.06	1.2635	.4023	.2153	.0010	-.0020	.0011	.0071
14427	.301	6076.2	19.98	-.00	1.4295	.5115	.2461	.0019	-.0019	-.0021	.0080
14428	.302	6119.4	21.74	-.00	1.5659	.6124	.2748	.0008	-.0019	-.0025	.0080
14429	.300	6029.5	23.95	.03	1.6374	.7137	.3129	.0196	-.0181	.0049	.0078
14430	.300	6059.1	25.72	-.06	1.5964	.7559	.3383	.0009	-.0025	-.0027	.0077
14431	.300	6044.9	27.74	-.00	1.6533	.8554	.3707	.0011	-.0034	-.0015	.0083
14432	.302	6109.1	29.86	-.05	1.6726	.9440	.3928	.0015	-.0025	-.0029	.0089
14433	.301	6067.4	31.64	-.06	1.6821	1.0198	.4102	.0007	-.0017	-.0047	.0095
14434	.300	6053.2	33.53	-.10	1.6866	1.1015	.4272	.0008	-.0001	-.0074	.0104
14435	.301	6072.2	35.67	-.24	1.6920	1.1978	.4433	.0012	-.0012	-.0056	.0117
14436	.300	6057.2	37.71	-.40	1.6747	1.2759	.4545	.0008	-.0015	-.0043	.0130
14437	.300	6048.0	39.55	-.50	1.6435	1.3378	.4524	.0012	-.0010	-.0037	.0136
14438	.300	6058.4	-1.43	-.00	-.0060	.0188	-.0064	.0010	-.0011	.0156	.0056

TEST TP NUM	24 MACH NUMB	Q PA	RUN 143 ALPHA DEG	BETA DEG	CN	CA	CM	CRM	CYM	CY
14414	.300	6053.9	-1.43	-1.00	-.0179	.0180	-.0044	.0006	-.0017	.0055
14415	.301	6069.7	-3.94	-1.01	-.1889	.0189	-.0327	.0008	-.0016	.0061
14416	.300	6052.0	-1.91	-1.00	-.0863	.0180	-.0149	.0011	-.0018	.0071
14417	.301	6077.7	-1.63	-1.00	-.0051	.0188	-.0026	.0010	-.0018	.0064
14418	.301	6073.2	2.05	-1.01	.1202	.0161	.0162	.0011	-.0019	.0064
14419	.300	6040.6	4.04	-1.01	.2367	.0140	.0358	.0011	-.0020	.0056
14420	.300	6033.4	5.84	.00	.3779	.0124	.0591	.0015	-.0021	.0051
14421	.300	6054.0	7.86	.00	.5133	.0106	.0844	.0018	-.0020	.0044
14422	.300	6048.4	9.95	-.02	.6428	.0082	.1063	.0022	-.0021	.0050
14423	.300	6050.5	11.81	-.00	.7972	.0073	.1332	.0025	-.0023	.0038
14424	.300	6026.0	13.90	-.10	.9415	.0039	.1568	.0030	-.0018	.0048
14425	.300	6036.1	16.02	-.02	1.1215	-.0002	.1868	.0017	-.0015	.0011
14426	.300	6042.1	17.82	-.06	1.3260	-.0038	.2153	.0016	-.0016	.0011
14427	.301	6076.2	19.98	-.00	1.5183	-.0076	.2461	.0021	-.0012	-.0021
14428	.302	6119.4	21.74	-.00	1.6614	-.0112	.2748	.0015	-.0015	-.0025
14429	.300	6029.5	23.95	.03	1.7861	-.0123	.3129	.0253	-.0086	.0049
14430	.300	6059.1	25.72	-.06	1.7663	-.0119	.3383	.0019	-.0019	-.0027
14431	.300	6044.9	27.74	-.00	1.8615	-.0124	.3707	.0026	-.0025	-.0015
14432	.302	6109.1	29.86	-.05	1.9206	-.0141	.3928	.0029	-.0014	-.0029
14433	.301	6067.4	31.64	-.06	1.9670	-.0141	.4102	.0015	-.0011	-.0047
14434	.300	6053.2	33.53	-.10	2.0144	-.0133	.4272	.0007	.0004	-.0074
14435	.301	6072.2	35.67	-.24	2.0730	-.0136	.4433	.0017	-.0003	-.0056
14436	.300	6057.2	37.71	-.40	2.1053	-.0150	.4545	.0016	-.0007	-.0043
14437	.300	6048.0	39.55	-.50	2.1206	-.0162	.4524	.0015	-.0000	-.0037
14438	.300	6058.4	-1.43	-.00	-.0061	.0188	-.0064	.0010	-.0011	.0156

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	0	RUN 143								
TP		NUMB	PA	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	C982
NUM				DEG	DEG							
14414	.300	6053.9	-43	-01	-0044	.0054	-.0043	.0002	.0006	.0013	.0007	
14415	.301	6059.7	-3.94	-06	-.0533	.0095	-.0494	.0003	.0006	.0011	-.0006	
14416	.300	6052.0	-1.91	-03	-.0233	.0061	-.0215	.0003	.0006	.0016	.0002	
14417	.301	6077.7	-.63	-01	-.0017	.0058	-.0020	.0002	.0006	.0011	.0008	
14418	.301	6073.2	2.05	.02	.0334	.0064	.0290	.0003	.0005	.0009	.0016	
14419	.300	6040.6	4.04	.05	.0709	.0101	.0608	.0003	.0003	.0007	.0026	
14420	.300	6033.4	5.84	.08	.1155	.0174	.0993	.0004	.0002	.0005	.0040	
14421	.300	6054.0	7.86	.10	.1623	.0278	.1405	.0005	.0001	.0002	.0056	
14422	.300	6048.4	9.95	.11	.2054	.0409	.1788	.0005	.0001	.0004	.0074	
14423	.300	6050.5	11.81	.15	.2566	.0582	.2252	.0005	-.0002	-.0001	.0097	
14424	.300	6026.0	13.90	.08	.3030	.0784	.2680	.0006	.0001	.0007	.0119	
14425	.300	6036.1	16.02	.19	.3598	.1060	.3212	.0004	-.0005	-.0007	.0151	
14426	.300	6042.1	17.82	.17	.4282	.1376	.3783	.0005	-.0002	.0002	.0164	
14427	.301	6076.2	19.97	.25	.4782	.1756	.4352	.0003	-.0008	-.0012	.0226	
14428	.302	6119.4	21.74	.27	.5272	.2106	.4852	.0004	-.0009	-.0018	.0256	
14429	.300	6029.5	23.94	.33	.5715	.2521	.5384	.0006	-.0025	-.0049	.0273	
14430	.300	6059.1	25.72	.26	.5817	.2759	.5624	.0000	-.0014	-.0041	.0264	
14431	.300	6044.9	27.73	.35	.6119	.3155	.6092	-.0001	-.0014	-.0042	.0276	
14432	.302	6109.1	29.86	.32	.6274	.3497	.6415	-.0000	-.0006	-.0013	.0316	
14433	.301	6067.4	31.63	.33	.6384	.3808	.6703	-.0003	-.0010	-.0018	.0342	
14434	.300	6053.2	33.53	.31	.6494	.4152	.7021	-.0003	-.0010	-.0019	.0359	
14435	.301	6072.2	35.67	.19	.6592	.4543	.7335	-.0002	-.0007	-.0010	.0376	
14436	.300	6057.2	37.71	.06	.6587	.4862	.7584	-.0004	-.0009	-.0013	.0394	
14437	.300	6048.0	39.55	-.02	.6453	.5036	.7647	-.0002	-.0007	-.0008	.0401	
14438	.300	6058.4	-.43	-.01	-.0038	.0043	-.0042	.0002	.0016	.0032	.0004	

TEST	24	MACH	0	RUN 143								
TP		NUMB	PA	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM				DEG	DEG							
14414	.300	6053.9	-43	-01	-.0044	.0054	-.0043	.0002	.0006	.0013	.0002	
14415	.301	6049.7	-3.94	-06	-.0538	.0057	-.0494	.0003	.0005	.0011	-.0002	
14416	.300	6052.0	-1.91	-03	-.0235	.0053	-.0215	.0003	.0007	.0016	.0001	
14417	.301	6077.7	-.63	-01	-.0018	.0057	-.0020	.0002	.0006	.0011	.0002	
14418	.301	6073.2	2.05	.02	.0336	.0052	.0290	.0003	.0005	.0009	.0004	
14419	.300	6040.6	4.04	.05	.0714	.0056	.0608	.0003	.0004	.0007	.0007	
14420	.300	6033.4	5.84	.08	.1167	.0056	.0993	.0004	.0003	.0005	.0010	
14421	.300	6054.0	7.86	.10	.1645	.0054	.1405	.0004	.0001	.0002	.0014	
14422	.300	6048.4	9.95	.11	.2094	.0048	.1788	.0004	.0002	.0004	.0019	
14423	.300	6050.5	11.81	.15	.2631	.0044	.2252	.0005	-.0001	-.0001	.0025	
14424	.300	6026.0	13.90	.08	.3129	.0033	.2680	.0005	.0002	.0007	.0030	
14425	.300	6036.1	16.02	.19	.3751	.0026	.3212	.0005	-.0004	-.0007	.0039	
14426	.300	6042.1	17.82	.17	.4421	.0024	.3783	.0005	-.0000	.0002	.0047	
14427	.301	6076.2	19.97	.25	.5095	.0017	.4352	.0006	-.0007	-.0012	.0058	
14428	.302	6119.4	21.74	.27	.5677	.0004	.4852	.0007	-.0007	-.0018	.0066	
14429	.300	6029.5	23.94	.33	.6247	-.0015	.5384	.0016	-.0021	-.0049	.0070	
14430	.300	6059.1	25.72	.26	.6436	-.0043	.5624	.0006	-.0013	-.0041	.0068	
14431	.300	6044.9	27.73	.35	.6885	-.0055	.6092	.0006	-.0013	-.0042	.0071	
14432	.302	6109.1	29.86	.32	.7182	-.0091	.6415	.0003	-.0005	-.0013	.0082	
14433	.301	6067.4	31.63	.33	.7433	-.0106	.6703	.0003	-.0010	-.0018	.0088	
14434	.300	6053.2	33.53	.31	.7707	-.0126	.7021	.0003	-.0010	-.0019	.0093	
14435	.301	6072.2	35.67	.19	.8004	-.0153	.7335	.0002	-.0007	-.0010	.0097	
14436	.300	6057.2	37.71	.06	.8185	-.0183	.7584	.0003	-.0010	-.0013	.0102	
14437	.300	6048.0	39.55	-.02	.8196	-.0211	.7647	.0003	-.0007	-.0008	.0104	
14438	.300	6058.4	-.43	-.01	-.0038	.0043	-.0042	.0002	.0016	.0032	.0001	

NASA LANGLEY												7 X 10 HIGH SPEED TUNNEL				
TEST	24	MACH	Q	RUN 149	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC				
TP		NUMB	PA	ALPHA	DEG											
NUM				DEG												
14575		.300	6077.2	.53	4.92	.0154	.0156	.0034	-.0086	.0246	-.0721	.0076				
14576		.301	6095.5	-2.01	4.83	-.0198	.0190	.0014	-.0053	.0179	-.0503	.0067				
14577		.300	6044.9	.60	4.77	.0176	.0158	.0036	-.0083	.0236	-.0685	.0075				
14578		.300	6072.0	4.83	4.89	.2560	.0298	.0030	-.0077	.0228	-.0665	.0079				
14579		.299	6041.0	8.00	5.14	.4264	.0641	-.0038	-.0084	.0230	-.0700	.0079				
14580		.300	6074.2	11.88	5.10	.6088	.1337	-.0269	-.0082	.0207	-.0685	.0077				
14581		.300	6063.8	15.79	4.81	.7017	.2148	-.0768	-.0018	.0007	-.0547	.0077				
14582		.300	6054.7	19.89	4.80	.7267	.2820	-.0852	-.0119	.0237	-.0677	.0068				
14583		.301	6086.6	23.81	4.77	.8268	.3806	-.0986	-.0171	.0316	-.0693	.0104				
14584		.300	6069.1	27.90	4.95	.8799	.4770	-.1064	-.0188	.0322	-.0672	.0127				

TEST	24	MACH	Q	RUN 148	BETA	CN	CA	CM	CRM	CYN	CY	
TP		NUMB	PA	ALPHA	DEG							
NUM				DEG								
14575		.300	6077.2	.53	4.92	.0155	.0155	.0034	-.0089	.0245	-.0721	
14576		.301	6095.5	-2.01	4.83	-.0198	.0152	.0014	-.0046	.0181	-.0503	
14577		.300	6044.9	.60	4.77	.0178	.0156	.0036	-.0085	.0235	-.0685	
14578		.300	6072.0	4.83	4.89	.2576	.0081	.0038	-.0096	.0220	-.0665	
14579		.299	6041.0	8.00	5.14	.4312	.0040	-.0038	-.0113	.0216	-.0700	
14580		.300	6074.2	11.88	5.10	.6233	.0055	-.0269	-.0123	.0186	-.0685	
14581		.300	6063.8	15.79	4.81	.7337	.0158	-.0768	-.0019	.0002	-.0547	
14582		.300	6054.7	19.89	4.80	.7793	.0179	-.0852	-.0193	.0183	-.0677	
14583		.301	6086.6	23.81	4.77	.9101	.0145	-.0986	-.0254	.0220	-.0693	
14584		.300	6069.1	27.90	4.95	1.0008	.0098	-.1064	-.0317	.0197	-.0672	

NASA LANGLEY													7 X 10 HIGH SPEED TUNNEL				
TEST	24	MACH	Q	RUN 140	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2					
TP		NUMB	PA	ALPHA2	DEG												
NUM				DEG													
14575		.300	6077.2	.47	4.93	.0024	.0048	.0029	-.0001	-.0137	-.0166	-.0016					
14576		.301	6095.5	-2.07	4.81	-.0042	.0047	-.0078	.0003	-.0107	-.0130	-.0017					
14577		.300	6044.9	.54	4.78	.0035	.0049	.0040	-.0001	-.0133	-.0161	-.0016					
14578		.300	6072.0	4.76	4.95	.0151	.0056	.0228	-.0008	-.0130	-.0159	-.0012					
14579		.299	6041.0	7.94	5.25	.0244	.0073	.0369	-.0014	-.0136	-.0172	-.0005					
14580		.300	6074.2	11.82	5.25	.0380	.0111	.0562	-.0022	-.0139	-.0190	-.0005					
14581		.300	6063.8	15.73	5.01	.04	.0146	.0711	-.0031	-.0140	-.0210	-.0023					
14582		.300	6054.7	19.83	5.05	.0568	.0191	.0870	-.0036	-.0128	-.0188	-.0026					
14583		.301	6086.6	23.75	5.07	.0676	.0262	.1048	-.0046	-.0133	-.0205	-.0010					
14584		.300	6069.1	27.84	5.30	.0784	.0343	.1225	-.0060	-.0141	-.0237	.0002					

TEST	24	MACH	Q	RUN 148	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2					
TP		NUMB	PA	ALPHA2	DEG												
NUM				DEG													
14575		.300	6077.2	.47	4.93	.0024	.0048	.0029	.0000	-.0137	-.0166	-.0004					
14576		.301	6095.5	-2.07	4.81	-.0044	.0045	-.0078	-.0001	-.0107	-.0130	-.0005					
14577		.300	6044.9	.54	4.78	.0035	.0048	.0040	.0000	-.0133	-.0161	-.0004					
14578		.300	6072.0	4.76	4.95	.0155	.0044	.0228	.0003	-.0131	-.0159	-.0003					
14579		.299	6041.0	7.94	5.25	.0252	.0038	.0369	.0005	-.0136	-.0172	-.0001					
14580		.300	6074.2	11.82	5.25	.0394	.0031	.0562	.0007	-.0140	-.0190	-.0001					
14581		.300	6063.8	15.73	5.01	.0489	.0014	.0711	.0008	-.0143	-.0210	-.0006					
14582		.300	6054.7	19.83	5.05	.0600	-.0013	.0870	.0009	-.0133	-.0188	-.0007					
14583		.301	6086.6	23.75	5.07	.0724	-.0033	.1048	.0012	-.0140	-.0205	-.0003					
14584		.300	6069.1	27.84	5.30	.0853	-.0063	.1225	.0013	-.0153	-.0237	.0000					

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7 X 10 HIGH SPEED TUNNEL												
TEST	24	MACH	Q	RUN 149	BETA	CL	CD	CMS	CRMS	CYMS	CYS	COC
TP		NUMB	PA	ALPHA	DEG							
NUM				DEG								
14597	.300	6067.1	.51	5.01	.0230	.0156	-.0001	-.0085	.0245	-.0773	.0076	
14598	.300	6051.3	27.76	5.20	.8997	.4853	-.1132	-.0178	.0327	-.0732	.0128	
14599	.299	6042.0	31.49	5.00	.9188	.5705	-.1249	-.0183	.0303	-.0759	.0181	
14600	.300	6068.1	35.77	5.16	.9679	.6998	-.1451	-.0241	.0342	-.1152	.0227	
14601	.300	6053.6	39.61	5.10	.9382	.7751	-.1454	-.0231	.0143	-.1133	.0240	
14602	.300	6065.8	.46	4.89	.0234	.0169	-.0009	-.0084	.0236	-.0742	.0075	
TEST	24	MACH	Q	RUN 149	BETA	CN	CA	CM	CRM	CYM	CY	
TP		NUMB	PA	ALPHA	DEG							
NUM				DEG								
14597	.300	6067.1	.51	5.01	.0231	.0154	-.0001	-.0087	.0244	-.0773		
14598	.300	6051.3	27.76	5.20	1.0222	.0103	-.1132	-.0110	.0206	-.0732		
14599	.299	6042.0	31.49	5.00	1.0815	.0066	-.1249	-.0314	.0162	-.0759		
14600	.300	6068.1	35.77	5.16	1.1944	.0019	-.1481	-.0396	.0137	-.1152		
14601	.300	6053.6	39.61	5.10	1.2170	-.0010	-.1454	-.0269	-.0037	-.1133		
14602	.300	6065.8	.46	4.89	.0236	.0167	-.0009	-.0086	.0235	-.0742		

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7 X 10 HIGH SPEED TUNNEL												
TEST	24	MACH	Q	RUN 149	BETA2	CL2	CD2	CMS2	CRMS2	CYMSZ	CYS2	COC2
TP		NUMB	PA	ALPHA2	DEG							
NUM				DEG								
14597	.300	6067.1	.44	5.02	.0013	.0043	.0020	-.0001	-.0139	-.0170	-.0017	
14598	.300	6051.3	27.70	5.55	.0762	.0327	.1207	-.0057	-.0135	-.0229	.0003	
14599	.299	6042.0	31.43	5.39	.0832	.0399	.1344	-.0078	-.0150	-.0294	.0012	
14600	.300	6068.1	35.72	5.59	.0914	.0509	.1503	-.0158	-.0240	-.0582	.0019	
14601	.300	6053.6	39.56	5.57	.0977	.0595	.1627	-.0203	-.0265	-.0685	.0033	
14602	.300	6065.8	.39	4.89	-.0008	.0044	-.0004	-.0060	-.0134	-.0164	-.0017	
TEST	24	MACH	Q	RUN 149	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	COC2
TP		NUMB	PA	ALPHA2	DEG							
NUM				DEG								
14597	.300	6067.1	.44	5.02	.0013	.0043	.0020	.0000	-.0139	-.0170	-.0004	
14598	.300	6051.3	27.70	5.55	.0826	-.0265	.1207	.0012	-.0146	-.0229	.0000	
14599	.299	6042.0	31.43	5.39	.0918	-.0093	.1344	.0012	-.0169	-.0294	.0003	
14600	.300	6068.1	35.72	5.59	.1040	-.0120	.1503	.0011	-.0287	-.0582	.0003	
14601	.300	6053.6	39.56	5.57	.1132	-.0163	.1627	.0012	-.0334	-.0685	.0009	
14602	.300	6065.8	.39	4.89	-.0008	.0045	-.0004	.0000	-.0134	-.0164	-.0004	

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24	MACH	Q	RUN 150	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
TP	NUMB	PA	ALPHA	DEG							
14603	.300	6059.7	.36	-4.97	-.0052	.0173	-.0013	.0103	-.0282	.0764	.0075
14604	.300	6061.5	-2.00	-4.87	-.0933	.0187	-.0025	.0077	-.0223	.0611	.0068
14605	.300	6070.2	.40	-5.06	-.0035	.0155	-.0020	.0100	-.0277	.0753	.0079
14606	.301	6086.2	3.80	-4.93	.1761	.0228	-.0010	.0101	-.0274	.0689	.0077
14607	.300	6057.2	8.06	-4.82	.4248	.0651	-.0079	.0102	-.0272	.0698	.0080
14608	.300	6047.1	11.73	-4.83	.6011	.1302	-.0304	.0099	-.0264	.0569	.0079
14609	.300	6068.2	15.85	-5.17	.7071	.2172	-.0857	.0044	-.0073	.0680	.0088
14610	.300	6058.3	19.73	-5.11	.8279	.2770	-.0906	.0193	-.0326	.0649	.0103
14611	.301	6104.8	23.88	-4.96	.9120	.3811	-.1039	.0134	-.0415	.0802	.0117
14612	.300	6062.5	27.84	-4.91	.9120	.4930	-.1245	.0246	-.0436	.0837	.0154
14613	.299	6040.9	31.62	-5.03	.9303	.5789	-.1310	.0250	-.0286	.0725	.0204
14614	.300	6074.3	35.51	-5.21	.9182	.6566	-.1322	.0246	-.0037	.0723	.0248
14615	.301	6110.1	39.70	-4.70	.9098	.7547	-.1254	.0100	-.0267		.0073
14616	.300	6074.0	.43	-4.85	-.0010	.0157	-.0019	.0099			

TEST 24	MACH	Q	RUN 150	BETA	CN	CA	CM	CRM	CYM	CY
TP	NUMB	PA	ALPHA	DEG						
14603	.300	6059.7	.36	-4.97	-.0051	.0173	-.0013	.0104	-.0282	.0764
14604	.300	6061.5	-2.00	-4.87	-.0939	.0154	-.0025	.0069	-.0223	.0611
14605	.300	6070.2	.40	-5.06	-.0054	.0156	-.0020	.0101	-.0276	.0753
14606	.301	6086.2	3.80	-4.93	.1772	.0111	-.0010	.0119	-.0267	.0689
14607	.300	6057.2	8.06	-4.82	.4297	.0049	-.0079	.0139	-.0272	.0698
14608	.300	6047.1	11.73	-4.83	.6150	.0053	-.0304	.0151	-.0238	.0666
14609	.300	6068.2	15.85	-5.17	.7395	.0159	-.0857	.0062	-.0058	.0569
14610	.300	6058.3	19.73	-5.11	.7719	.0175	-.0577	.0223	-.0222	.0680
14611	.301	6104.8	23.88	-4.96	.9113	.0133	-.1039	.0310	-.0219	.0649
14612	.300	6062.5	27.84	-4.91	1.0387	.0100	-.1245	.0412	-.0252	.0802
14613	.299	6040.9	31.62	-5.03	1.0957	.0053	-.1310	.0441	-.0241	.0837
14614	.300	6074.3	35.51	-5.21	1.1288	.0012	-.1322	.0366	-.0090	.0725
14615	.301	6110.1	39.70	-4.70	1.1821	-.0005	-.1254	.0101	-.0035	.0723
14616	.300	6074.0	.43	-4.85	-.0009	.0157	-.0019	.0097	-.0266	

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24	MACH	Q	RUN 150	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
TP	NUMB	PA	ALPHA2	DEG							
14603	.300	6059.7	.42	-4.97	.0006	.0049	.0010	.0001	.0139	.0168	-.0020
14604	.300	6061.5	-1.94	-4.89	-.0061	.0046	-.0092	-.0002	.0109	.0130	-.0020
14605	.300	6070.2	.47	-5.05	.0006	.0046	.0008	.0001	.0137	.0165	-.0020
14606	.301	6086.2	3.86	-4.88	.0102	.0045	.0162	.0007	.0126	.0149	-.0017
14607	.300	6057.2	8.12	-4.72	.0223	.0068	.0355	.0014	.0132	.0165	-.0005
14608	.300	6047.1	11.79	-4.68	.0328	.0099	.0513	.0021	.0133	.0173	-.0004
14609	.300	6068.2	15.91	-4.96	.0423	.0135	.0674	.0034	.0153	.0219	-.0022
14610	.300	6058.3	19.79	-4.86	.0501	.0166	.0844	.0040	.0143	.0204	-.0025
14611	.301	6104.8	23.94	-4.66	.0620	.0234	.0981	.0051	.0144	.0224	-.0013
14612	.300	6062.5	27.89	-4.96	.0726	.0317	.1177	.0076	.0169	.0309	-.0000
14613	.299	6040.9	31.67	-4.64	.0800	.0392	.1312	.0098	.0186	.0370	.0003
14614	.300	6074.3	35.56	-4.78	.0880	.0481	.1462	.0119	.0194	.0419	.0007
14615	.301	6110.1	39.74	-4.23	.1034	.0650	.1697	.0003	.0035	.0053	.0041
14616	.300	6074.0	.49	-4.85	.0002	.0045	.0004	.0001	.0132	.0159	-.0020

TEST 24	MACH	Q	RUN 150	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2
TP	NUMB	PA	ALPHA2	DEG							
14603	.300	6059.7	.42	-4.97	.0006	.0049	.0010	.0000	.0139	.0168	-.0005
14604	.300	6061.5	-1.94	-4.89	-.0062	.0044	-.0092	.0001	.0109	.0130	-.0005
14605	.300	6070.2	.47	-5.05	.0006	.0046	.0008	.0000	.0137	.0165	-.0005
14606	.301	6086.2	3.86	-4.88	.0103	.0038	.0162	-.0002	.0126	.0149	-.0004
14607	.300	6057.2	8.12	-4.72	.0232	.0035	.0355	-.0004	.0133	.0165	-.0002
14608	.300	6047.1	11.79	-4.68	.0341	.0030	.0513	-.0006	.0134	.0173	-.0001
14609	.300	6068.2	15.91	-4.96	.0444	.0014	.0676	-.0009	.0156	.0219	-.0006
14610	.300	6058.3	19.79	-4.86	.0528	-.0013	.0805	-.0011	.0148	.0204	-.0003
14611	.301	6104.8	23.94	-4.66	.0662	-.0037	.0991	-.0012	.0152	.0224	-.0003
14612	.300	6062.5	27.89	-4.96	.0790	-.0060	.1177	-.0012	.0185	.0309	.0000
14613	.299	6040.9	31.67	-4.64	.0887	-.0086	.1312	-.0014	.0209	.0370	.0001
14614	.300	6074.3	35.56	-4.78	.0996	-.0120	.1462	-.0016	.0227	.0419	.0002
14615	.301	6110.1	39.74	-4.23	.1211	-.0161	.1697	-.0020	.0028	.0053	.0010
14616	.300	6074.0	.49	-4.85	.0003	.0045	.0004	.0000	.0132	.0159	-.0005

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	TP	MACH	Q	RUN	151	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	COC
MUR	MUR	PA	DEG	DEG											
14630	.300	6070.3	-4.2	-0.00	-0.0132	.0160	-0.0020	.0010	-0.0014	.0000	.0056	.0056	.0056	.0056	.0056
14631	.300	6075.4	-3.94	-0.03	-0.1645	.0278	-0.0040	.0011	-0.0011	.0010	.0058	.0058	.0058	.0058	.0058
14632	.300	6082.9	-1.85	-0.01	-0.0644	.0197	-0.0032	.0010	-0.0014	.0005	.0057	.0057	.0057	.0057	.0057
14633	.301	6088.7	-6.2	-0.00	-0.0064	.0175	-0.0024	.0009	-0.0016	.0000	.0056	.0056	.0056	.0056	.0056
14634	.300	6066.7	2.12	.01	.1289	.0197	-0.0018	.0011	-0.0016	.0000	.0056	.0056	.0056	.0056	.0056
14635	.300	6071.7	3.88	.04	.2222	.0265	-0.0007	.0012	-0.0020	.0028	.0056	.0056	.0056	.0056	.0056
14636	.299	6035.1	6.01	.05	.3203	.0453	-0.0023	.0017	-0.0022	.0036	.0056	.0056	.0056	.0056	.0056
14637	.300	6058.6	7.75	.07	.4204	.0647	-0.0073	.0015	-0.0021	.0045	.0056	.0056	.0056	.0056	.0056
14638	.300	6065.4	10.09	.08	.5315	.0996	-0.0174	.0012	-0.0023	.0052	.0056	.0056	.0056	.0056	.0056
14639	.300	6045.3	11.86	.09	.6110	.1342	-0.0310	.0009	-0.0023	.0051	.0056	.0056	.0056	.0056	.0056
14640	.300	6074.3	13.73	.10	.6804	.1752	-0.0505	.0011	-0.0024	.0056	.0056	.0056	.0056	.0056	.0056
14641	.300	6070.6	15.06	.13	.6436	.2181	-0.0610	.0070	-0.0144	.0004	.0056	.0056	.0056	.0056	.0056
14642	.301	6094.8	17.68	.11	.6097	.2421	-0.0894	.0013	-0.0022	.0052	.0056	.0056	.0056	.0056	.0056
14643	.301	6106.4	19.88	.14	.7283	.2867	-0.0949	.0052	-0.0106	.0008	.0056	.0056	.0056	.0056	.0056
14644	.301	6107.3	21.65	.15	.7611	.3233	-0.1003	.0060	-0.0152	.0043	.0056	.0056	.0056	.0056	.0056
14645	.300	6072.0	23.63	.14	.8139	.3764	-0.1112	.0076	-0.0222	.0114	.0056	.0056	.0056	.0056	.0056
14646	.301	6082.3	25.82	.17	.8593	.4332	-0.1215	.0094	-0.0247	.0122	.0100	.0100	.0100	.0100	.0100
14647	.301	6105.8	27.82	.19	.9044	.4896	-0.1263	.0147	-0.0395	.0137	.0109	.0109	.0109	.0109	.0109
14648	.301	6091.8	29.44	.22	.9246	.5325	-0.1332	.0156	-0.0419	.0099	.0122	.0122	.0122	.0122	.0122
14649	.300	6078.9	31.56	.26	.9316	.5807	-0.1368	.0153	-0.0374	.0030	.0146	.0146	.0146	.0146	.0146
14650	.300	6052.5	33.63	.30	.9404	.6319	-0.1403	.0149	-0.0296	.0105	.0175	.0175	.0175	.0175	.0175
14651	.300	6036.1	35.71	.28	.9498	.6880	-0.1459	.0124	-0.0267	.0084	.0208	.0208	.0208	.0208	.0208
14652	.301	6097.2	37.75	.21	.9483	.7346	-0.1409	.0099	-0.0099	.0493	.0238	.0238	.0238	.0238	.0238
14653	.300	6082.6	39.77	.22	.9428	.7818	-0.1435	.0032	.0075	.0446	.0264	.0264	.0264	.0264	.0264
14654	.299	6045.1	41.65	.35	.9249	.8178	-0.1443	.0016	.0062	.0351	.0277	.0277	.0277	.0277	.0277
14655	.299	6027.4	43.57	.32	.9345	.8827	-0.1576	.0020	.0024	.0172	.0276	.0276	.0276	.0276	.0276
14656	.300	6058.3	45.78	.38	.9254	.9384	-0.1655	.0101	-0.0130	.0241	.0271	.0271	.0271	.0271	.0271
14657	.300	6064.5	47.53	.52	.9131	.9808	-0.1656	.0026	-0.0153	.0376	.0274	.0274	.0274	.0274	.0274
14658	.301	6103.7	-4.2	-0.00	-0.0089	.0173	-0.0036	.0012	-0.0014	.0007	.0056	.0056	.0056	.0056	.0056
TEST	24	TP	MACH	Q	RUN	151	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	COC
MUR	MUR	PA	DEG	DEG											
14630	.300	6070.3	-4.2	-0.00	-0.0134	.0167	-0.0028	.0010	-0.0014	.0006	.0056	.0056	.0056	.0056	.0056
14631	.300	6075.4	-3.94	-0.03	-0.1680	.0162	-0.0040	.0010	-0.0012	.0010	.0056	.0056	.0056	.0056	.0056
14632	.300	6082.9	-1.85	-0.01	-0.0650	.0176	-0.0032	.0009	-0.0014	.0005	.0056	.0056	.0056	.0056	.0056
14633	.301	6088.7	-6.2	-0.00	-0.0066	.0175	-0.0024	.0009	-0.0016	.0000	.0056	.0056	.0056	.0056	.0056
14634	.300	6066.7	2.12	.01	.1295	.0149	-0.0018	.0011	-0.0016	.0000	.0056	.0056	.0056	.0056	.0056
14635	.300	6071.7	3.88	.04	.2237	.0114	-0.0007	.0013	-0.0019	.0008	.0056	.0056	.0056	.0056	.0056
14636	.299	6035.1	6.01	.05	.3410	.0077	-0.0023	.0019	-0.0020	.0036	.0056	.0056	.0056	.0056	.0056
14637	.300	6058.6	7.75	.07	.4332	.0064	-0.0073	.0018	-0.0019	.0045	.0056	.0056	.0056	.0056	.0056
14638	.300	6065.4	10.09	.08	.5407	.0050	-0.0174	.0016	-0.0020	.0052	.0056	.0056	.0056	.0056	.0056
14639	.300	6065.3	11.86	.09	.6255	.0057	-0.0310	.0014	-0.0021	.0051	.0056	.0056	.0056	.0056	.0056
14640	.300	6074.3	13.73	.10	.7025	.0087	-0.0505	.0016	-0.0020	.0056	.0056	.0056	.0056	.0056	.0056
14641	.300	6070.6	15.06	.13	.7269	.0190	-0.0810	.0107	-0.0119	.0004	.0056	.0056	.0056	.0056	.0056
14642	.301	6094.8	17.68	.11	.7307	.0213	-0.0894	.0019	-0.0017	.0052	.0056	.0056	.0056	.0056	.0056
14643	.301	6106.4	19.88	.14	.7824	.0219	-0.0949	.0085	-0.0082	.0008	.0056	.0056	.0056	.0056	.0056
14644	.301	6107.3	21.65	.15	.8267	.0196	-0.1003	.0112	-0.0119	.0043	.0056	.0056	.0056	.0056	.0056
14645	.300	6072.0	23.63	.14	.8965	.0186	-0.1112	.0156	-0.0173	.0114	.0056	.0056	.0056	.0056	.0056
14646	.300	6082.3	25.82	.17	.9621	.0157	-0.1215	.0210	-0.0217	.0122	.0100	.0100	.0100	.0100	.0100
14647	.301	6105.8	27.82	.15	1.0284	.0108	-0.1283	.0314	-0.0281	.0137	.0109	.0109	.0109	.0109	.0109
14648	.301	6091.8	29.44	.22	1.0669	.0092	-0.1332	.0342	-0.0288	.0099	.0122	.0122	.0122	.0122	.0122
14649	.300	6078.9	31.56	.26	1.0977	.0072	-0.1368	.0326	-0.0238	.0030	.0146	.0146	.0146	.0146	.0146
14650	.300	6052.5	33.63	.30	1.1330	.0053	-0.1403	.0288	-0.0164	.0105	.0175	.0175	.0175	.0175	.0175
14651	.300	6036.1	35.71	.28	1.1728	.0042	-0.1459	.0256	-0.0145	.0084	.0208	.0208	.0208	.0208	.0208
14652	.301	6097.2	37.75	.21	1.1995	.0003	-0.1409	.0100	-0.0048	.0493	.0238	.0238	.0238	.0238	.0238
14653	.300	6082.6	39.77	.22	1.2248	.0022	-0.1435	.0073	-0.0037	.0446	.0264	.0264	.0264	.0264	.0264
14654	.299	6045.1	41.65	.35	1.2345	.0039	-0.1443	.0053	-0.0035	.0351	.0277	.0277	.0277	.0277	.0277
14655	.299	6027.4	43.57	.32	1.2855	.0046	-0.1576	.0031	-0.0004	.0172	.0276	.0276	.0276	.0276	.0276
14656	.300	6058.3	45.78	.38	1.3179	.0086	-0.1655	.0164	-0.0019	.0241	.0271	.0271	.0271	.0271	.0271
14657	.300	6064.5	47.53	.52	1.3399	.0113	-0.1656	.0130	-0.0084	.0376	.0274	.0274	.0274	.0274	.0274
14658	.301	6103.7	-4.2	-0.00	-0.0090	.0173	-0.0036	.0012	-0.0014	.0007	.0056	.0056	.0056	.0056	.0056

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## 7 X 10 HIGH SPEED TUNNEL

TEST 24	TP	MACH	Q	RUN 191	ALPHA2	BETA2	CL2	CD2	CMS2	CRM2	CYM2	CY2	CD2
NUM	NUMS	PA	DEG	DEG									
14630	.300	6070.3	-4.2	-0.1	-0.010	.0039	-.0018	-.0000	-.0001	-.0003	-.0029		
14631	.300	6075.4	-3.94	-0.08	-.0089	.0050	-.0143	.0000	-.0001	-.0004	-.0027		
14632	.300	6082.9	-1.85	-0.04	-.0033	.0044	-.0037	-.0000	-.0000	-.0002	-.0028		
14633	.301	6088.7	-.62	-0.1	-.0009	.0044	-.0013	.0000	-.0000	-.0002	-.0028		
14634	.300	6066.7	2.12	.04	.0063	.0047	.0102	-.0000	-.0000	-.0001	-.0028		
14635	.300	6071.7	3.88	.09	.0112	.0050	.0185	-.0000	-.0001	-.0004	-.0025		
14636	.299	6035.1	6.01	.13	.0167	.0059	.0267	-.0000	-.0002	-.0006	-.0021		
14637	.300	6058.6	7.74	.17	.0216	.0068	.0343	-.0000	-.0003	-.0006	-.0016		
14638	.300	6065.4	10.09	.21	.0278	.0079	.0436	-.0000	-.0001	-.0004	-.0011		
14639	.300	6065.3	11.86	.24	.0324	.0091	.0509	.0000	.0001	.0001	-.0012		
14640	.300	6074.3	13.73	.28	.0372	.0108	.0585	-.0000	.0000	.0001	-.0014		
14641	.300	6070.6	15.96	.35	.0417	.0132	.0673	-.0002	-.0007	-.0018	-.0026		
14642	.301	6094.8	17.67	.34	.0447	.0144	.0728	-.0000	.0000	.0001	-.0031		
14643	.301	6106.4	19.88	.39	.0510	.0174	.0826	-.0001	-.0001	-.0004	-.0027		
14644	.301	6107.3	21.65	.43	.0553	.0193	.0890	-.0000	-.0000	-.0001	-.0024		
14645	.300	6072.0	23.63	.44	.0615	.0231	.0987	.0001	.0002	.0006	-.0016		
14646	.300	6082.3	25.81	.49	.0672	.0270	.1081	.0001	.0002	.0008	-.0008		
14647	.301	6105.8	27.82	.50	.0721	.0306	.1158	.0005	.0008	.0023	.0002		
14648	.301	6091.8	29.44	.59	.0761	.0342	.1227	.0006	.0008	.0026	.0007		
14649	.300	6078.9	31.56	.65	.0810	.0386	.1313	.0002	.0002	.0012	.0013		
14650	.300	6052.5	33.63	.72	.0858	.0433	.1398	.0002	.0002	.0014	.0019		
14651	.300	6056.1	35.70	.72	.0913	.0448	.1501	.0023	.0029	.0104	.0023		
14652	.301	6097.2	37.75	.66	.0951	.0554	.1571	.0038	.0074	.0239	.0024		
14653	.300	6082.6	39.76	.70	.0994	.0608	.1655	.0054	.0064	.0219	.0031		
14654	.299	6045.1	41.65	.85	.1022	.0650	.1714	.0048	.0053	.0195	.0038		
14655	.299	6027.4	43.57	.83	.1061	.0707	.1793	.0019	.0020	.0104	.0048		
14656	.300	6058.3	45.77	.91	.1088	.0761	.1857	-.0005	-.0006	.0033	.0054		
14657	.300	6064.5	47.52	1.07	.1119	.0824	.1936	-.0062	-.0057	-.0114	.0056		
14658	.301	6103.7	-.42	-.01	-.0017	.0042	-.0025	.0000	-.0001	-.0003	-.0028		

TEST 24	TP	MACH	Q	RUN 191	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CD2
NUM	NUMS	PA	DEG	DEG									
14630	.300	6070.3	-4.2	-0.1	-.0011	.0038	-.0018	-.0000	-.0001	-.0003	-.0007		
14631	.300	6075.4	-3.94	-0.08	-.0092	.0044	-.0143	.0000	-.0001	-.0004	-.0007		
14632	.300	6082.9	-1.85	-0.04	-.0034	.0043	-.0037	-.0000	-.0000	-.0002	-.0007		
14633	.301	6088.7	-.62	-0.1	-.0009	.0044	-.0013	.0000	-.0000	-.0002	-.0007		
14634	.300	6066.7	2.12	.04	.0064	.0044	.0102	.0000	-.0000	-.0001	-.0007		
14635	.300	6071.7	3.88	.09	.0115	.0042	.0180	-.0000	-.0001	-.0004	-.0007		
14636	.299	6035.1	6.01	.13	.0173	.0041	.0267	-.0000	-.0002	-.0006	-.0006		
14637	.300	6058.6	7.74	.17	.0223	.0038	.0343	-.0000	-.0003	-.0006	-.0004		
14638	.300	6065.4	10.09	.21	.0288	.0029	.0436	-.0000	-.0001	-.0004	-.0003		
14639	.300	6065.3	11.86	.24	.0336	.0022	.0509	-.0000	.0001	.0001	-.0004		
14640	.300	6074.3	13.73	.28	.0387	.0017	.0585	-.0000	.0000	-.0001	-.0004		
14641	.300	6070.6	15.96	.35	.0437	.0012	.0673	-.0000	-.0008	-.0018	-.0007		
14642	.301	6094.8	17.67	.34	.0470	.0002	.0728	-.0000	.0000	.0001	-.0009		
14643	.301	6106.4	19.88	.39	.0539	-.0010	.0826	-.0000	-.0002	-.0004	-.0007		
14644	.301	6107.3	21.65	.43	.0585	-.0025	.0890	-.0000	-.0000	-.0001	-.0007		
14645	.300	6072.0	23.63	.44	.0656	-.0035	.0987	.0000	.0002	.0006	-.0005		
14646	.300	6082.3	25.81	.49	.0723	-.0050	.1081	.0000	.0003	.0008	-.0003		
14647	.301	6105.8	27.82	.50	.0780	-.0066	.1158	.0001	.0009	.0023	-.0000		
14648	.301	6091.8	29.44	.59	.0830	-.0076	.1227	.0001	.0010	.0026	.0001		
14649	.300	6078.9	31.56	.65	.0892	-.0095	.1313	.0001	.0003	.0012	.0002		
14650	.300	6052.5	33.63	.72	.0954	-.0114	.1398	.0001	.0002	.0014	.0004		
14651	.300	6056.1	35.70	.72	.1032	-.0129	.1501	.0002	.0037	.0104	.0005		
14652	.301	6097.2	37.75	.66	.1091	-.0144	.1571	.0001	.0093	.0239	.0006		
14653	.300	6082.6	39.76	.70	.1152	-.0168	.1655	.0000	.0084	.0219	.0007		
14654	.299	6045.1	41.65	.85	.1196	-.0193	.1714	.0000	.0071	.0195	.0009		
14655	.299	6027.4	43.57	.83	.1256	-.0219	.1793	-.0000	.0028	.0104	.0011		
14656	.300	6058.3	45.77	.91	.1304	-.0248	.1857	.0001	-.0008	.0033	.0012		
14657	.300	6064.5	47.52	1.07	.1363	-.0270	.1936	.0000	-.0085	-.0114	.0013		
14658	.301	6103.7	-.42	-.01	-.0018	.0041	-.0025	.0000	-.0001	-.0003	-.0007		

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN 152								
TP		NUMB	PA	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC
NUM				DEG	DEG							
14670	.300	6075.0	.47	4.84	4.84	.0233	.0153	-.0001	-.0000	-.0111	-.0250	.0078
14671	.300	6073.1	-1.88	4.77	4.77	-.0079	.0105	-.0020	-.0021	-.0088	-.0169	.0066
14672	.301	6085.4	.46	4.77	4.77	.0248	.0155	-.0003	-.0002	-.0113	-.0239	.0078
14673	.301	6081.4	4.13	5.13	5.13	.2235	.0250	-.0002	-.0027	-.0108	-.0238	.0077
14674	.299	6034.2	8.04	4.89	4.89	.4502	.0678	-.0092	-.0047	-.0107	-.0275	.0077
14675	.300	6049.5	11.73	5.05	5.05	.6282	.1356	-.0355	-.0062	-.0114	-.0301	.0081
14676	.299	6038.3	16.00	5.01	5.01	.8791	.2117	-.0792	-.0138	-.0001	-.0372	.0091
14677	.300	6059.5	19.74	5.08	5.08	.7499	.2881	-.0923	-.0180	.0063	-.0376	.0093
14678	.301	6082.9	23.83	4.77	4.77	.8456	.3885	-.1058	-.0239	.0147	-.0351	.0108
14679	.300	6041.9	27.76	5.15	5.15	.8977	.4834	-.1157	-.0262	.0163	-.0390	.0129
14680	.300	6051.9	31.91	4.90	4.90	.9291	.5864	-.1307	-.0243	.0136	-.0438	.0172
14681	.300	6064.6	35.88	4.90	4.90	.9399	.6848	-.1471	-.0289	.0055	-.0663	.0241
14682	.301	6084.1	40.10	4.91	4.91	.9450	.7946	-.1538	-.0263	.0020	-.0548	.0279
14683	.300	6065.4	.70	4.89	4.89	.0440	.0173	-.0005	-.0005	-.0113	-.0221	.0078

TEST	24	MACH	Q	RUN 152								
TP		NUMB	PA	ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM				DEG	DEG							
14670	.300	6075.0	.47	4.84	4.84	.0235	.0151	-.0001	.0001	-.0111	-.0250	
14671	.300	6073.1	-1.88	4.77	4.77	-.0084	.0156	-.0020	.0018	-.0088	-.0169	
14672	.301	6085.4	.46	4.77	4.77	.0249	.0153	-.0003	-.0001	-.0113	-.0239	
14673	.301	6081.4	4.13	5.13	5.13	.2247	.0089	-.0002	-.0019	-.0110	-.0238	
14674	.299	6034.2	8.04	4.89	4.89	.4532	.0042	-.0092	-.0031	-.0112	-.0275	
14675	.300	6049.5	11.73	5.05	5.05	.6427	.0051	-.0355	-.0038	-.0125	-.0301	
14676	.299	6038.3	16.00	5.01	5.01	.7111	.0163	-.0792	-.0132	-.0039	-.0372	
14677	.300	6059.5	19.74	5.08	5.08	.8032	.0179	-.0923	-.0191	-.0001	-.0376	
14678	.301	6082.9	23.83	4.77	4.77	.9305	.0137	-.1058	-.0278	.0037	-.0351	
14679	.300	6041.9	27.76	5.15	5.15	1.0196	.0097	-.1157	-.0308	.0022	-.0390	
14680	.300	6051.9	31.91	4.90	4.90	1.0986	.0066	-.1307	-.0278	-.0013	-.0438	
14681	.300	6064.6	35.88	4.90	4.90	1.1629	.0041	-.1471	-.0266	-.0125	-.0663	
14682	.301	6084.1	40.10	4.91	4.91	1.2347	-.0009	-.1538	-.0214	-.0154	-.0548	
14683	.300	6065.4	.70	4.89	4.89	.0442	.0167	-.0005	-.0004	-.0113	-.0221	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24	MACH	Q	RUN 152								
TP		NUMB	PA	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDC2
NUM				DEG	DEG							
14670	.300	6075.0	.41	4.84	4.84	.0010	.0043	.0017	-.0001	-.0132	-.0159	-.0027
14671	.300	6073.1	-1.95	4.75	4.75	-.0042	.0045	-.0069	.0003	-.0105	-.0128	-.0026
14672	.301	6085.4	.40	4.78	4.78	.0015	.0046	.0021	-.0001	-.0134	-.0162	-.0027
14673	.301	6081.4	4.06	5.18	5.18	.0109	.0045	.0174	-.0007	-.0131	-.0160	-.0024
14674	.299	6034.2	7.97	4.99	4.99	.0223	.0068	.0355	-.0014	-.0129	-.0165	-.0011
14675	.300	6049.5	11.67	5.20	5.20	.0328	.0097	.0516	-.0021	-.0136	-.0183	-.0011
14676	.299	6038.3	15.94	5.22	5.22	.0415	.0126	.0670	-.0029	-.0132	-.0177	-.0029
14677	.300	6059.5	19.68	5.33	5.33	.0517	.0172	.0830	-.0036	-.0132	-.0183	-.0026
14678	.301	6082.9	23.77	5.07	5.07	.0623	.0231	.0994	-.0041	-.0120	-.0178	-.0011
14679	.300	6041.9	27.69	5.50	5.50	.0719	.0300	.1154	-.0057	-.0137	-.0221	.0002
14680	.300	6051.9	31.85	5.30	5.30	.0814	.0388	.1325	-.0075	-.0146	-.0273	.0014
14681	.300	6064.6	35.82	5.34	5.34	.0894	.0484	.1478	-.0130	-.0203	-.0462	.0020
14682	.301	6084.1	40.05	5.39	5.39	.0980	.0590	.1640	-.0137	-.0188	-.0422	.0038
14683	.300	6065.4	.64	4.90	4.90	.0020	.0047	.0031	-.0001	-.0134	-.0160	-.0028

TEST	24	MACH	Q	RUN 152								
TP		NUMB	PA	ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM				DEG	DEG							
14670	.300	6075.0	.41	4.84	4.84	.0011	.0043	.0017	-.0000	-.0132	-.0159	-.0007
14671	.300	6073.1	-1.95	4.75	4.75	-.0043	.0044	-.0069	-.0001	-.0105	-.0128	-.0007
14672	.301	6085.4	.40	4.78	4.78	.0015	.0046	.0021	.0000	-.0134	-.0162	-.0007
14673	.301	6081.4	4.06	5.18	5.18	.0112	.0036	.0174	.0002	-.0131	-.0160	-.0006
14674	.299	6034.2	7.97	4.99	4.99	.0230	.0037	.0355	.0005	-.0130	-.0165	-.0003
14675	.300	6049.5	11.67	5.20	5.20	.0341	.0029	.0516	.0007	-.0137	-.0183	-.0003
14676	.299	6038.3	15.94	5.22	5.22	.0433	.0007	.0670	.0008	-.0135	-.0177	-.0007
14677	.300	6059.5	19.68	5.33	5.33	.0545	-.0012	.0830	.0010	-.0136	-.0183	-.0007
14678	.301	6082.9	23.77	5.07	5.07	.0663	-.0040	.0994	.0011	-.0127	-.0178	-.0003
14679	.300	6041.9	27.69	5.50	5.50	.0776	-.0068	.1154	.0013	-.0148	-.0221	.0000
14680	.300	6051.9	31.85	5.30	5.30	.0897	-.0100	.1325	.0013	-.0164	-.0273	.0003
14681	.300	6064.6	35.82	5.34	5.34	.1008	-.0131	.1478	.0013	-.0241	-.0462	.0005
14682	.301	6084.1	40.05	5.39	5.39	.1130	-.0180	.1640	.0016	-.0232	-.0422	.0009
14683	.300	6065.4	.64	4.90	4.90	.0021	.0046	.0031	.0000	-.0134	-.0160	-.0007



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 153 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
14684	.300	6067.7	.25	-5.09	-.0049	.0164	-.0008	-.0000	.0113	.0226	.0081
14685	.301	6084.4	-1.97	-4.89	-.0796	.0168	-.0001	-.0021	.0092	.0202	.0072
14686	.301	6085.0	.26	-5.09	-.0076	.0152	-.0012	.0002	.0115	.0239	.0082
14687	.300	6063.3	4.15	-4.88	.2079	.0251	.0004	.0034	.0108	.0202	.0077
14688	.299	6035.1	7.75	-4.93	.4176	.0613	-.0062	.0058	.0111	.0222	.0078
14689	.301	6083.2	11.98	-5.06	.6193	.1363	-.0332	.0077	.0124	.0219	.0080
14690	.299	6019.1	15.89	-4.99	.6902	.2129	-.0805	.0105	.0112	.0239	.0088
14691	.300	6071.0	19.99	-4.95	.7477	.2906	-.0929	.0188	-.0035	.0312	.0093
14692	.300	6062.8	23.79	-5.20	.8407	.3855	-.1065	.0266	-.0108	.0362	.0109
14693	.300	6073.2	27.82	-5.18	.8921	.4817	-.1165	.0287	-.0142	.0334	.0126
14694	.300	6052.6	31.60	-5.01	.9242	.5775	-.1288	.0272	-.0115	.0339	.0166
14695	.300	6041.7	35.77	-4.95	.9363	.6783	-.1357	.0244	-.0059	.0303	.0220
14696	.299	6028.8	39.74	-5.12	.9281	.7698	-.1352	.0166	-.0062	.0171	.0271
14697	.300	6060.6	.25	-5.04	-.0048	.0161	-.0007	.0001	.0114	.0220	.0080

TEST TP NUM	24 MACH NUMB	Q PA	RUN 153 ALPHA DEG	BETA DEG	CM	CA	CM	CRM	CYM	CY
14684	.300	6067.7	.25	-5.09	-.0048	.0165	-.0008	-.0001	.0113	.0226
14685	.301	6084.4	-1.97	-4.89	-.0802	.0141	.0001	-.0018	.0093	.0202
14686	.301	6085.0	.26	-5.09	-.0075	.0153	-.0012	.0001	.0115	.0239
14687	.300	6063.3	4.15	-4.88	.2092	.0100	.0004	.0026	.0110	.0202
14688	.299	6035.1	7.75	-4.93	.4221	.0044	-.0062	.0043	.0118	.0222
14689	.301	6083.2	11.98	-5.06	.6341	.0048	-.0332	.0050	.0137	.0219
14690	.299	6019.1	15.89	-4.99	.7221	.0157	-.0805	.0070	.0136	.0239
14691	.300	6071.0	19.99	-4.95	.8020	.0175	-.0929	.0189	.0031	.0312
14692	.300	6062.8	23.79	-5.20	.9248	.0136	-.1065	.0287	.0008	.0362
14693	.300	6073.2	27.82	-5.18	1.0138	.0096	-.1165	.0320	.0008	.0334
14694	.300	6052.6	31.60	-5.01	1.0897	.0075	-.1288	.0291	.0045	.0339
14695	.300	6041.7	35.77	-4.95	1.1562	.0031	-.1357	.0232	.0094	.0303
14696	.299	6028.8	39.74	-5.12	1.2058	-.0014	-.1352	.0167	.0058	.0171
14697	.300	6060.6	.25	-5.04	-.0048	.0161	-.0007	.0001	.0114	.0220

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 153 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
14684	.300	6067.7	.32	-5.09	.0007	.0047	.0009	.0001	.0139	.0169	-.0028
14685	.301	6084.4	-1.91	-4.91	-.0032	.0043	-.0057	-.0003	.0114	.0141	-.0026
14686	.301	6085.0	.33	-5.09	-.0001	.0047	-.0001	.0001	.0141	.0171	-.0028
14687	.300	6063.3	4.22	-4.83	.0115	.0049	.0182	.0007	.0129	.0157	-.0025
14688	.299	6035.1	7.82	-4.83	.0216	.0066	.0342	.0013	.0133	.0168	-.0013
14689	.301	6083.2	12.04	-4.91	.0330	.0097	.0520	.0022	.0139	.0188	-.0010
14690	.299	6019.1	15.96	-4.79	.0418	.0130	.0671	.0030	.0138	.0195	-.0027
14691	.300	6071.0	20.05	-4.69	.0525	.0176	.0842	.0038	.0136	.0199	-.0026
14692	.300	6062.8	23.85	-4.90	.0618	.0232	.0992	.0053	.0149	.0238	-.0014
14693	.300	6073.2	27.88	-4.83	.0722	.0306	.1161	.0064	.0149	.0257	-.0003
14694	.300	6052.6	31.66	-4.62	.0820	.0393	.1334	.0077	.0154	.0288	.0010
14695	.300	6041.7	35.82	-4.51	.0912	.0492	.1500	.0089	.0150	.0305	.0025
14696	.299	6028.8	39.79	-4.64	.1004	.0607	.1676	.0066	.0109	.0203	.0037
14697	.300	6060.6	.31	-5.04	.0001	.0044	.0002	.0001	.0138	.0168	-.0028

TEST TP NUM	24 MACH NUMB	Q PA	RUN 153 ALPHA2 DEG	BETA2 DEG	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
14684	.300	6067.7	.32	-5.09	.0007	.0046	.0009	.0000	.0139	.0169	-.0007
14685	.301	6084.4	-1.91	-4.91	-.0034	.0041	-.0057	.0001	.0114	.0141	-.0007
14686	.301	6085.0	.33	-5.09	-.0001	.0047	-.0001	.0000	.0141	.0171	-.0007
14687	.300	6063.3	4.22	-4.83	.0118	.0040	.0182	-.0002	.0129	.0157	-.0006
14688	.299	6035.1	7.82	-4.83	.0223	.0036	.0342	-.0005	.0133	.0168	-.0004
14689	.301	6083.2	12.04	-4.91	.0343	.0026	.0520	-.0007	.0140	.0188	-.0003
14690	.299	6019.1	15.96	-4.79	.0438	.0010	.0671	-.0009	.0141	.0195	-.0007
14691	.300	6071.0	20.05	-4.69	.0534	-.0014	.0842	-.0011	.0141	.0199	-.0007
14692	.300	6062.8	23.85	-4.90	.0639	-.0038	.0992	-.0012	.0158	.0238	-.0003
14693	.300	6073.2	27.88	-4.83	.0781	-.0067	.1161	-.0013	.0161	.0257	-.0006
14694	.300	6052.6	31.66	-4.62	.0904	-.0096	.1334	-.0015	.0171	.0288	.0003
14695	.300	6041.7	35.82	-4.51	.1027	-.0135	.1500	-.0016	.0174	.0305	.0007
14696	.299	6028.8	39.79	-4.64	.1160	-.0177	.1676	-.0019	.0126	.0203	.0009
14697	.300	6060.6	.31	-5.04	.0001	.0044	.0002	.0000	.0138	.0168	-.0007

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 155								
TP	MACH	Q		ALPHA	BETA	CL	CD	CM5	CRM5	CYM5	CY5	CDC
NUM	NUMB	PA	DEG	DEG	DEG							
14751	.300	6060.8	.74	4.91	.0366	.0167	-.0150	-.0092	.0241	-.0780	.0075	
14754	.301	6097.9	-2.01	4.91	-.0838	.0190	.0337	-.0047	.0178	-.0590	.0066	
14755	.301	6105.7	.63	4.86	.0309	.0163	-.0140	-.0092	.0242	-.0782	.0075	
14756	.300	6082.5	3.81	5.06	.0270	.0260	-.0958	-.0105	.0234	-.0770	.0080	
14757	.300	6069.9	7.80	4.80	.4250	.0643	-.1987	-.0083	.0200	-.0698	.0076	
14758	.301	6087.9	11.71	4.96	.6352	.1321	-.2752	-.0084	.0209	-.0774	.0079	
14759	.300	6075.5	15.87	4.85	.8126	.2257	-.3375	-.0067	.0169	-.0781	.0079	
14760	.301	6089.7	19.99	5.00	1.0007	.3555	-.4135	-.0055	.0169	-.0846	.0073	
14761	.301	6089.7	23.64	4.96	1.1140	.4751	-.4652	-.0049	.0122	-.0828	.0070	
14762	.300	6080.4	27.87	4.88	1.2281	.6345	-.5350	-.0053	.0052	-.0854	.0082	
14763	.300	6079.2	31.87	4.96	1.2457	.7618	-.5706	-.0098	-.0002	-.0835	.0097	
14764	.300	6052.5	35.74	5.04	1.1551	.8213	-.5594	-.0130	-.0063	-.1006	.0116	
14765	.301	6083.4	39.55	5.16	1.0717	.8706	-.5587	-.0151	-.0098	-.1121	.0160	
14766	.300	6082.5	43.70	5.16	1.0068	.9421	-.5588	-.0207	-.0149	-.1167	.0224	
14767	.301	6093.4	47.45	4.91	.9353	.9895	-.5491	-.0103	-.0040	-.1195	.0260	
14768	.301	6083.8	.82	4.98	.0431	.0165	-.0175	-.0088	.0226	-.0702	.0074	

TEST	24			RUN 155								
TP	MACH	Q		ALPHA	BETA	CM	CA	CM	CRM	CYM	CY	
NUM	NUMB	PA	DEG	DEG	DEG							
14751	.300	6060.8	.74	4.91	.0368	.0162	-.0150	-.0096	.0239	-.0780		
14754	.301	6097.9	-2.01	4.91	-.0844	.0161	.0337	-.0040	.0179	-.0590		
14755	.301	6105.7	.63	4.86	.0310	.0159	-.0140	-.0095	.0241	-.0782		
14756	.300	6082.5	3.81	5.06	.0283	.0122	-.0958	-.0120	.0227	-.0770		
14757	.300	6069.9	7.80	4.90	.4298	.0060	-.1987	-.0109	.0186	-.0698		
14758	.301	6087.9	11.71	4.96	.6488	.0004	-.2752	-.0124	.0187	-.0774		
14759	.300	6075.5	15.87	4.85	.8433	-.0051	-.3375	-.0111	.0144	-.0781		
14760	.301	6089.7	19.99	5.00	1.0620	-.0080	-.4135	-.0109	.0140	-.0846		
14761	.301	6089.7	23.64	4.96	1.2110	-.0115	-.4652	-.0093	.0092	-.0828		
14762	.300	6080.4	27.87	4.88	1.3823	-.0133	-.5350	-.0071	.0021	-.0854		
14763	.300	6079.2	31.87	4.96	1.4601	-.0108	-.5706	-.0082	-.0053	-.0835		
14764	.301	6052.5	35.74	5.04	1.4173	-.0081	-.5594	-.0069	-.0127	-.1006		
14765	.301	6083.4	39.55	5.16	1.3808	-.0112	-.5587	-.0054	-.0171	-.1121		
14766	.300	6082.5	43.70	5.16	1.3788	-.0145	-.5588	-.0047	-.0251	-.1167		
14767	.301	6093.4	47.45	4.91	1.3614	-.0200	-.5491	-.0040	-.0103	-.1195		
14768	.301	6083.8	.82	4.98	.0433	.0159	-.0175	-.0091	.0225	-.0702		

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 155								
TP	MACH	Q		ALPHA2	BETA2	CL2	CD2	CM52	CRM52	CYM52	CY52	CDB2
NUM	NUMB	PA	DEG	DEG	DEG							
14751	.300	6060.8	.68	4.92	.0027	.0042	.0040	-.0001	-.0141	-.0173	-.0023	
14754	.301	6097.9	-2.08	4.88	-.0034	.0043	-.0065	-.0003	-.0111	-.0138	-.0022	
14755	.301	6105.7	.56	4.87	.0023	.0041	.0032	-.0001	-.0143	-.0176	-.0022	
14756	.300	6082.5	3.74	5.11	.0093	.0044	.0158	-.0007	-.0144	-.0180	-.0020	
14757	.300	6069.9	7.74	4.90	.0175	.0052	.0302	-.0013	-.0128	-.0164	-.0010	
14758	.301	6087.9	11.65	5.11	.0290	.0081	.0482	-.0022	-.0137	-.0183	.0004	
14759	.300	6075.5	15.81	5.05	.0401	.0116	.0650	-.0031	-.0138	-.0196	.0022	
14760	.301	6089.7	19.92	5.26	.0531	.0172	.0846	-.0041	-.0145	-.0216	.0042	
14761	.301	6089.7	23.58	5.26	.0620	.0225	.0984	-.0050	-.0145	-.0231	.0058	
14762	.300	6080.4	27.81	5.23	.0732	.0309	.1171	-.0063	-.0150	-.0257	.0077	
14763	.300	6079.2	31.81	5.35	.0820	.0391	.1328	-.0079	-.0157	-.0292	.0084	
14764	.300	6052.5	35.68	5.48	.0881	.0479	.1465	-.0133	-.0211	-.0473	.0076	
14765	.301	6083.4	39.50	5.63	.0929	.0549	.1571	-.0164	-.0226	-.0531	.0080	
14766	.300	6082.5	43.65	5.68	.0993	.0652	.1715	-.0213	-.0251	-.0623	.0088	
14767	.301	6093.4	47.41	5.46	.1029	.0738	.1810	-.0215	-.0225	-.0568	.0086	
14768	.301	6083.8	.75	4.99	.0029	.0039	.0042	-.0002	-.0137	-.0168	-.0023	

TEST	24			RUN 155								
TP	MACH	Q		ALPHA2	BETA2	CM2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG	DEG							
14751	.300	6060.8	.68	4.92	.0027	.0042	.0040	.0000	-.0141	-.0173	-.0006	
14754	.301	6097.9	-2.08	4.88	-.0035	.0041	-.0065	-.0001	-.0111	-.0138	-.0006	
14755	.301	6105.7	.56	4.87	.0024	.0041	.0032	.0000	-.0143	-.0176	-.0006	
14756	.300	6082.5	3.74	5.11	.0095	.0038	.0158	.0002	-.0144	-.0180	-.0005	
14757	.300	6069.9	7.74	4.90	.0181	.0028	.0302	.0004	-.0129	-.0164	-.0003	
14758	.301	6087.9	11.65	5.11	.0301	.0020	.0482	.0006	-.0139	-.0183	.0001	
14759	.300	6075.5	15.81	5.05	.0417	.0002	.0650	.0008	-.0141	-.0196	.0005	
14760	.301	6089.7	19.92	5.26	.0558	-.0019	.0846	.0011	-.0150	-.0216	.0010	
14761	.301	6089.7	23.58	5.26	.0658	-.0042	.0984	.0012	-.0153	-.0231	.0014	
14762	.300	6080.4	27.81	5.23	.0792	-.0068	.1171	.0014	-.0163	-.0257	.0019	
14763	.300	6079.2	31.81	5.35	.0903	-.0100	.1328	.0015	-.0175	-.0292	.0021	
14764	.300	6052.5	35.68	5.48	.0995	-.0125	.1465	.0015	-.0248	-.0473	.0019	
14765	.301	6083.4	39.50	5.63	.1066	-.0167	.1572	.0018	-.0279	-.0531	.0021	
14766	.300	6082.5	43.65	5.68	.1168	-.0214	.1715	.0019	-.0329	-.0623	.0022	
14767	.301	6093.4	47.41	5.46	.1240	-.0258	.1810	.0020	-.0311	-.0568	.0022	
14768	.301	6083.8	.75	4.99	.0030	.0038	.0042	.0000	-.0137	-.0168	-.0006	



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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 156 ALPHA DEG	BETA DEG	CL	CD	CMS	CRMS	CYMS	CYS	CDC
14769	.301	6098.6	.52	-5.00	.0055	.0158	-.0062	.0090	-.0269	.0726	.0072
14770	.301	6097.3	-2.09	-4.88	-.0798	.0182	.0379	.0061	-.0237	.0674	.0068
14771	.299	6043.2	.48	-4.86	.0013	.0165	-.0037	.0089	-.0275	.0750	.0073
14772	.300	6062.8	3.86	-4.79	.1838	.0260	-.0866	.0116	-.0261	.0713	.0078
14773	.300	6052.5	7.97	-4.93	.4206	.0662	-.1970	.0103	-.0244	.0707	.0080
14774	.301	6085.7	11.82	-4.79	.6283	.1331	-.2742	.0089	-.0227	.0706	.0079
14775	.300	6057.3	15.67	-4.88	.7887	.2171	-.3276	.0079	-.0195	.0694	.0078
14776	.300	6067.0	19.99	-4.79	.9897	.3527	-.4106	.0055	-.0162	.0682	.0074
14777	.301	6097.2	23.66	-5.12	1.1024	.4714	-.4626	.0064	-.0119	.0688	.0070
14778	.299	6039.9	27.78	-4.97	1.2224	.6298	-.5348	.0075	-.0027	.0726	.0077
14779	.300	6064.0	31.77	-4.85	1.2529	.7632	-.5794	.0126	.0019	.0672	.0093
14780	.299	6043.9	35.66	-4.92	1.1805	.8357	-.5692	.0148	.0225	.0426	.0130
14781	.300	6071.2	39.73	-4.97	1.0985	.8976	-.5604	.0105	.0307	.0200	.0205
14782	.301	6089.7	43.63	-4.95	.9519	.8870	-.4919	-.0063	-.0115	.0188	.0274
14783	.300	6060.3	47.55	-5.00	.8979	.9534	-.4983	-.0037	-.0128	.0472	.0279
14784	.300	6064.3	.54	-5.13	.0102	.0165	-.0066	.0088	-.0280	.0779	.0075

TEST TP NUM	24 MACH NUMB	Q PA	RUN 156 ALPHA DEG	BETA DEG	CN	CA	CM	CRM	CYM	CY
14769	.301	6098.6	.52	-5.00	.0056	.0158	-.0062	.0092	-.0269	.0726
14770	.301	6097.3	-2.09	-4.88	-.0804	.0153	.0379	.0053	-.0239	.0674
14771	.299	6043.2	.48	-4.86	.0015	.0165	-.0037	.0091	-.0275	.0750
14772	.300	6062.8	3.86	-4.79	.1852	.0136	-.0866	.0133	-.0253	.0713
14773	.300	6052.5	7.97	-4.93	.4257	.0073	-.1970	.0136	-.0227	.0707
14774	.301	6085.7	11.82	-4.79	.6422	.0016	-.2742	.0134	-.0204	.0706
14775	.300	6057.3	15.67	-4.88	.8180	-.0040	-.3276	.0128	-.0166	.0694
14776	.300	6067.0	19.99	-4.79	1.0506	-.0069	-.4106	.0107	-.0134	.0682
14777	.301	6097.2	23.66	-5.12	1.1989	-.0106	-.4626	.0106	-.0084	.0688
14778	.299	6039.9	27.78	-4.97	1.3751	-.0125	-.5348	.0079	.0011	.0726
14779	.300	6064.0	31.77	-4.85	1.4670	-.0108	-.5794	.0097	.0082	.0672
14780	.299	6043.9	35.66	-4.92	1.4463	-.0092	-.5692	-.0011	.0269	.0426
14781	.300	6071.2	39.73	-4.97	1.4185	-.0118	-.5604	-.0116	.0303	.0200
14782	.301	6089.7	43.63	-4.95	1.3010	-.0147	-.4919	.0033	-.0127	.0188
14783	.300	6060.3	47.55	-5.00	1.3095	-.0191	-.4983	.0070	-.0113	.0472
14784	.300	6064.3	.54	-5.13	.0103	.0164	-.0066	.0090	-.0279	.0779

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## 7 X 10 HIGH SPEED TUNNEL

TEST TP NUM	24 MACH NUMB	Q PA	RUN 156 ALPHA2 DEG	BETA2 DEG	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
14769	.301	6098.6	.58	-4.99	.0003	.0040	.0004	.0001	.0122	.0144	-.0024
14770	.301	6097.3	-2.02	-4.91	-.0022	.0040	-.0052	-.0003	.0109	.0131	-.0021
14771	.299	6043.2	.54	-4.85	.0007	.0045	.0008	.0001	.0127	.0150	-.0024
14772	.300	6062.8	3.92	-4.74	.0093	.0047	.0156	.0006	.0124	.0147	-.0021
14773	.300	6052.5	8.03	-4.82	.0183	.0058	.0312	.0013	.0127	.0158	-.0011
14774	.301	6085.7	11.88	-4.64	.0282	.0085	.0472	.0020	.0128	.0169	.0001
14775	.300	6057.3	15.73	-4.68	.0386	.0118	.0632	.0028	.0130	.0183	.0017
14776	.300	6067.0	20.05	-4.54	.0519	.0176	.0834	.0037	.0132	.0198	.0037
14777	.301	6097.2	23.72	-4.82	.0613	.0229	.0979	.0049	.0144	.0231	.0053
14778	.299	6039.9	27.84	-4.63	.0721	.0310	.1160	.0063	.0149	.0269	.0072
14779	.300	6064.0	31.82	-4.46	.0810	.0393	.1321	.0077	.0153	.0297	.0079
14780	.299	6043.9	35.71	-4.48	.0896	.0486	.1485	.0091	.0156	.0320	.0083
14781	.300	6071.2	39.78	-4.43	.0989	.0605	.1660	.0049	.0091	.0142	.0086
14782	.301	6089.7	43.67	-4.43	.1076	.0742	.1839	-.0025	.0006	-.0059	.0081
14783	.300	6060.3	47.59	-4.45	.1123	.0864	.1975	-.0027	.0005	.0027	.0078
14784	.300	6064.3	.61	-5.12	.0013	.0042	.0016	.0001	.0132	.0159	-.0023

TEST TP NUM	24 MACH NUMB	Q PA	RUN 156 ALPHA2 DEG	BETA2 DEG	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2
14769	.301	6098.6	.58	-4.99	.0003	.0040	.0004	-.0000	.0122	.0144	-.0006
14770	.301	6097.3	-2.02	-4.91	-.0023	.0039	-.0052	.0001	.0110	.0131	-.0006
14771	.299	6043.2	.54	-4.85	.0007	.0045	.0008	-.0000	.0127	.0150	-.0006
14772	.300	6062.8	3.92	-4.74	.0096	.0041	.0156	-.0002	.0124	.0147	-.0005
14773	.300	6052.5	8.03	-4.82	.0190	.0032	.0312	-.0005	.0127	.0158	-.0003
14774	.301	6085.7	11.88	-4.64	.0293	.0025	.0472	-.0007	.0130	.0169	.0000
14775	.300	6057.3	15.73	-4.68	.0404	.0009	.0632	-.0008	.0133	.0183	.0004
14776	.300	6067.0	20.05	-4.54	.0548	-.0013	.0834	-.0011	.0136	.0198	.0009
14777	.301	6097.2	23.72	-4.82	.0653	-.0037	.0979	-.0013	.0151	.0231	.0013
14778	.299	6039.9	27.84	-4.63	.0782	-.0063	.1160	-.0014	.0162	.0269	.0019
14779	.300	6064.0	31.82	-4.46	.0896	-.0093	.1321	-.0015	.0171	.0297	.0020
14780	.299	6043.9	35.71	-4.48	.1012	-.0128	.1485	-.0017	.0179	.0320	.0021
14781	.300	6071.2	39.78	-4.43	.1147	-.0168	.1660	-.0021	.0101	.0142	.0022
14782	.301	6089.7	43.67	-4.43	.1291	-.0207	.1839	-.0022	-.0013	-.0059	.0021
14783	.300	6060.3	47.59	-4.45	.1396	-.0247	.1975	-.0022	-.0017	.0027	.0021
14784	.300	6064.3	.61	-5.12	.0013	.0041	.0016	-.0000	.0132	.0159	-.0006

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 157								
TP	MACH	Q	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS	CDC	
NUM	NUMB	PA	DEG	DEG								
14796	.301	6091.7	.65	4.96	.0314	.0161	-.0123	-.0014	-.0119	-.0283	.0078	
14797	.300	6073.6	-1.88	5.10	-.0856	.0174	.0336	.0027	-.0098	-.0220	.0067	
14798	.300	6078.2	.70	4.85	.0352	.0161	-.0144	-.0013	-.0115	-.0281	.0078	
14799	.301	6113.0	3.97	4.95	.2109	.0264	-.0984	-.0048	-.0107	-.0283	.0077	
14800	.301	6088.9	8.08	4.96	.4385	.0570	-.2047	-.0062	-.0078	-.0348	.0075	
14801	.300	6066.9	11.82	4.90	.6376	.1333	-.2754	-.0066	-.0072	-.0421	.0081	
14802	.300	6049.3	15.79	4.93	.8014	.2207	-.3332	-.0072	-.0084	-.0471	.0083	
14803	.299	6034.9	19.90	4.93	.9802	.3448	-.4039	-.0085	-.0132	-.0433	.0080	
14804	.301	6115.2	23.72	5.16	1.1133	.4750	-.4632	-.0106	-.0187	-.0479	.0080	
14805	.300	6074.6	27.73	4.84	1.2202	.6253	-.5276	-.0109	-.0181	-.0575	.0083	
14806	.299	6032.6	31.73	5.12	1.2442	.7573	-.5721	-.0132	-.0192	-.0763	.0100	
14807	.301	6102.8	35.80	5.18	1.1333	.8073	-.5502	-.0132	-.0062	-.1126	.0122	
14808	.301	6098.9	39.55	5.14	1.0566	.8602	-.5530	-.0137	-.0064	-.1280	.0164	
14809	.300	6065.2	43.31	5.04	1.0070	.9298	-.5589	-.0139	-.0070	-.1360	.0211	
14810	.301	6096.8	47.44	5.10	.9271	.9818	-.5490	-.0111	-.0026	-.1300	.0260	
14811	.300	6081.4	.62	4.94	.0299	.0152	-.0123	-.0011	-.0107	-.0258	.0075	

TEST	24			RUN 157							
TP	MACH	Q	ALPHA	BETA	CN	CA	CM	CRM	CYM	CY	
NUM	NUMB	PA	DEG	DEG							
14796	.301	6091.7	.65	4.96	.0315	.0158	-.0123	-.0012	-.0119	-.0283	
14797	.300	6073.6	-1.88	5.10	-.0861	.0146	.0336	.0024	-.0099	-.0220	
14798	.300	6078.2	.70	4.85	.0354	.0156	-.0144	-.0012	-.0115	-.0281	
14799	.301	6113.0	3.97	4.95	.2122	.0117	-.0984	-.0040	-.0111	-.0283	
14800	.301	6088.9	8.08	4.96	.4435	.0047	-.2047	-.0050	-.0086	-.0348	
14801	.300	6066.9	11.82	4.90	.6514	-.0002	-.2754	-.0049	-.0084	-.0421	
14802	.300	6049.3	15.79	4.93	.8312	-.0057	-.3332	-.0047	-.0100	-.0471	
14803	.299	6034.9	19.90	4.93	1.0391	-.0095	-.4039	-.0035	-.0154	-.0433	
14804	.301	6115.2	23.72	5.16	1.2104	-.0129	-.4632	-.0022	-.0213	-.0479	
14805	.300	6074.6	27.73	4.84	1.3710	-.0143	-.5276	-.0012	-.0211	-.0575	
14806	.299	6032.6	31.73	5.12	1.4565	-.0102	-.5721	-.0032	-.0199	-.0763	
14807	.301	6102.8	35.80	5.18	1.3914	-.0081	-.5502	-.0071	-.0127	-.1126	
14808	.301	6098.9	39.55	5.14	1.3624	-.0096	-.5530	-.0064	-.0136	-.1280	
14809	.300	6065.2	43.31	5.04	1.3705	-.0141	-.5589	-.0054	-.0146	-.1360	
14810	.301	6096.8	47.44	5.10	1.3502	-.0188	-.5490	-.0056	-.0099	-.1300	
14811	.300	6081.4	.62	4.94	.0301	.0149	-.0123	-.0009	-.0107	-.0258	

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## 7 X 10 HIGH SPEED TUNNEL

TEST	24			RUN 157							
TP	MACH	Q	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2	CDB2
NUM	NUMB	PA	DEG	DEG							
14796	.301	6091.7	.59	4.97	.0021	.0043	.0033	-.0001	-.0145	-.0179	-.0023
14797	.300	6073.6	-1.95	5.07	-.0049	.0041	-.0080	.0003	-.0117	-.0144	-.0021
14798	.300	6078.2	.64	4.86	.0021	.0043	.0033	-.0001	-.0141	-.0174	-.0023
14799	.301	6113.0	3.90	5.00	.0092	.0046	.0161	-.0007	-.0137	-.0167	-.0020
14800	.301	6088.9	8.02	5.06	.0174	.0052	.0306	-.0014	-.0132	-.0167	-.0009
14801	.300	6066.9	11.76	5.05	.0279	.0080	.0473	-.0021	-.0134	-.0179	.0004
14802	.300	6049.3	15.72	5.14	.0385	.0111	.0633	-.0030	-.0138	-.0195	.0020
14803	.299	6034.9	19.84	5.18	.0509	.0162	.0818	-.0039	-.0140	-.0206	.0039
14804	.301	6115.2	23.66	5.46	.0610	.0220	.0976	-.0053	-.0153	-.0245	.0058
14805	.300	6074.6	27.67	5.19	.0715	.0299	.1150	-.0062	-.0148	-.0253	.0075
14806	.299	6032.6	31.67	5.51	.0817	.0388	.1329	-.0085	-.0168	-.0317	.0084
14807	.301	6102.8	35.74	5.62	.0866	.0471	.1452	-.0140	-.0224	-.0502	.0071
14808	.301	6098.9	39.50	5.62	.0921	.0542	.1564	-.0171	-.0237	-.0557	.0080
14809	.300	6065.2	43.26	5.56	.0967	.0620	.1671	-.0207	-.0251	-.0615	.0085
14810	.301	6096.8	47.39	5.65	.1008	.0718	.1779	-.0220	-.0233	-.0589	.0083
14811	.300	6081.4	.56	4.95	.0018	.0039	.0028	-.0001	-.0131	-.0160	-.0023

TEST	24			RUN 157							
TP	MACH	Q	ALPHA2	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2	CDC2
NUM	NUMB	PA	DEG	DEG							
14796	.301	6091.7	.59	4.97	.0022	.0043	.0033	.0000	-.0145	-.0179	-.0006
14797	.300	6073.6	-1.95	5.07	-.0050	.0039	-.0080	-.0001	-.0117	-.0144	-.0006
14798	.300	6078.2	.64	4.86	.0021	.0043	.0033	.0000	-.0141	-.0174	-.0006
14799	.301	6113.0	3.90	5.00	.0095	.0039	.0161	.0002	-.0137	-.0167	-.0005
14800	.301	6088.9	8.02	5.06	.0179	.0027	.0306	.0004	-.0132	-.0167	-.0002
14801	.300	6066.9	11.76	5.05	.0290	.0022	.0473	.0006	-.0135	-.0179	.0001
14802	.300	6049.3	15.72	5.14	.0400	.0003	.0633	.0008	-.0141	-.0195	.0005
14803	.299	6034.9	19.84	5.18	.0534	-.0020	.0818	.0011	-.0145	-.0206	.0010
14804	.301	6115.2	23.66	5.46	.0647	-.0043	.0976	.0013	-.0162	-.0245	.0015
14805	.300	6074.6	27.67	5.19	.0772	-.0067	.1150	.0014	-.0160	-.0253	.0019
14806	.299	6032.6	31.67	5.51	.0899	-.0098	.1329	.0016	-.0188	-.0317	.0021
14807	.301	6102.8	35.74	5.62	.0978	-.0124	.1452	.0017	-.0264	-.0502	.0018
14808	.301	6098.9	39.50	5.62	.1055	-.0168	.1564	.0019	-.0292	-.0557	.0021
14809	.300	6065.2	43.26	5.56	.1129	-.0211	.1671	.0021	-.0324	-.0615	.0022
14810	.301	6096.8	47.39	5.65	.1211	-.0256	.1779	.0023	-.0319	-.0589	.0021
14811	.300	6081.4	.56	4.95	.0018	.0039	.0028	.0000	-.0131	-.0160	-.0006



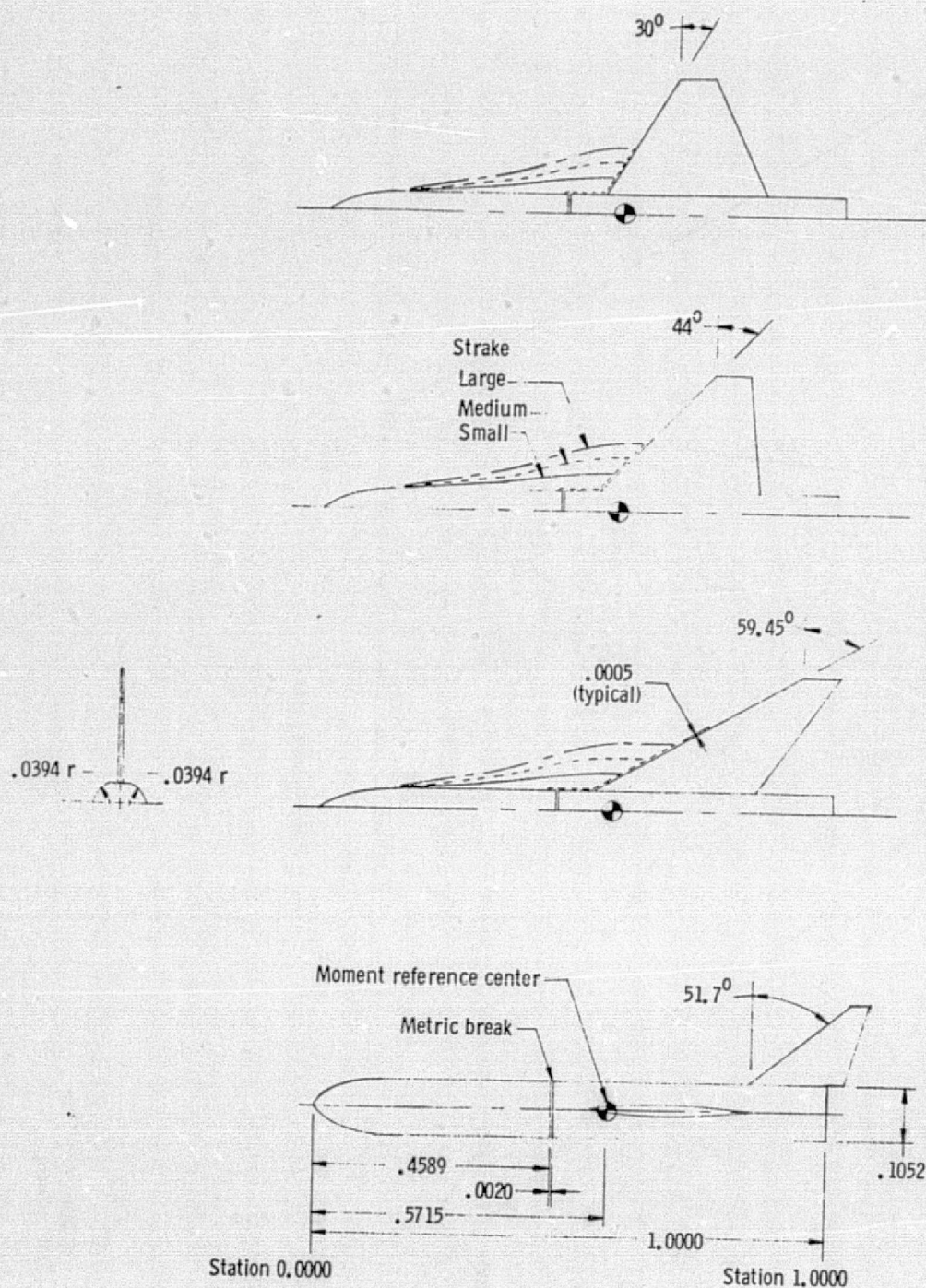
NASA LANGLEY											
7 X 10 HIGH SPEED TUNNEL											
TEST	24	MACH		Q		RUN 158		CL		CD	
TP		NUMB	PA	ALPHA	BETA	CL	CD	CMS	CRMS	CYMS	CYS
NUM				DEG	DEG						CDC
14812	.300	6075.4	.24	-5.00	-.0104	.0159	-.0007	.0001	.0109	.0157	.0079
14813	.301	6082.9	-1.89	-5.14	-.0694	.0164	.0338	-.0027	.0092	.0142	.0072
14814	.300	6081.5	.35	-5.12	-.0072	.0148	.0001	-.0000	.0109	.0150	.0079
14815	.300	6065.6	3.84	-4.78	.1736	.0234	-.0848	.0054	.0105	.0137	.0074
14816	.300	6074.1	8.09	-4.82	.4319	.0679	-.2028	.0069	.0103	.0188	.0074
14817	.299	6043.5	11.94	-4.87	.6265	.1330	-.2723	.0077	.0101	.0196	.0078
14818	.300	6050.0	15.71	-4.94	.7983	.2204	-.3300	.0084	.0121	.0235	.0081
14819	.300	6073.0	19.85	-4.82	.9841	.3472	-.4074	.0092	.0180	.0151	.0079
14820	.301	6092.0	23.64	-4.69	1.1137	.4757	-.4627	.0121	.0219	.0127	.0076
14821	.300	6048.2	27.78	-4.91	1.2267	.6322	-.5339	.0139	.0263	.0256	.0083
14822	.300	6055.5	31.52	-4.84	1.2511	.7562	-.5786	.0172	.0194	.0363	.0094
14823	.300	6060.4	35.60	-4.90	1.1628	.8202	-.5611	.0144	.0172	.0367	.0118
14824	.301	6093.9	39.58	-5.08	1.1080	.8992	-.5700	-.0001	.0119	.0446	.0192
14825	.301	6089.5	43.51	-4.80	.9534	.8856	-.4959	-.0082	-.0148	.0081	.0270
14826	.300	6070.9	47.61	-4.81	.9032	.9624	-.5058	-.0031	-.0113	.0367	.0271
14827	.300	6072.2	.45	-4.88	.0043	.0160	-.0057	.0001	.0110	.0130	.0078

NASA LANGLEY											
7 X 10 HIGH SPEED TUNNEL											
TEST	24	MACH		Q		RUN 158		CN		CA	
TP		NUMB	PA	ALPHA	BETA	CN	CA	CM	CRM	CYM	CY
NUM				DEG	DEG						
14812	.300	6075.4	.24	-5.00	-.0103	.0156	-.0007	.0001	.0109	.0157	
14813	.301	6082.9	-1.89	-5.14	-.0699	.0141	.0338	-.0024	.0093	.0142	
14814	.300	6081.5	.35	-5.12	-.0071	.0149	.0001	-.0001	.0109	.0150	
14815	.300	6065.6	3.84	-4.78	.1748	.0117	-.0848	.0047	.0109	.0137	
14816	.300	6074.1	8.09	-4.82	.4371	.0065	-.2028	.0054	.0111	.0188	
14817	.299	6043.5	11.94	-4.87	.6405	.0006	-.2723	.0055	.0115	.0196	
14818	.300	6050.0	15.71	-4.94	.8282	-.0040	-.3300	.0048	.0139	.0235	
14819	.300	6073.0	19.85	-4.82	1.0435	-.0077	-.4074	.0025	.0200	.0151	
14820	.301	6092.0	23.64	-4.69	1.2110	-.0108	-.4627	.0023	.0249	.0127	
14821	.300	6048.2	27.78	-4.91	1.3800	-.0123	-.5339	.0001	.0297	.0256	
14822	.300	6055.5	31.52	-4.84	1.4618	-.0095	-.5786	.0045	.0255	.0363	
14823	.300	6060.4	35.60	-4.90	1.4230	-.0099	-.5611	.0017	.0224	.0367	
14824	.301	6093.9	39.58	-5.08	1.4269	-.0130	-.5700	-.0077	.0091	.0446	
14825	.301	6089.5	43.51	-4.80	1.3011	-.0140	-.4959	.0042	-.0164	.0081	
14826	.300	6070.9	47.61	-4.81	1.3197	-.0183	-.5058	.0063	-.0099	.0367	
14827	.300	6072.2	.45	-4.88	.0044	.0159	-.0057	.0000	.0110	.0130	

NASA LANGLEY											
7 X 10 HIGH SPEED TUNNEL											
TEST	24	MACH		Q		RUN 158		CL2		CD2	
TP		NUMB	PA	ALPHA2	BETA2	CL2	CD2	CMS2	CRMS2	CYMS2	CYS2
NUM				DEG	DEG						CDB2
14812	.300	6075.4	.31	-5.00	-.0012	.0043	-.0017	.0001	.0134	.0159	-.0024
14813	.301	6082.9	-1.82	-5.16	-.0022	.0040	-.0046	-.0003	.0116	.0140	-.0022
14814	.300	6081.5	.42	-5.11	-.0001	.0044	-.0002	.0001	.0132	.0157	-.0024
14815	.300	6065.6	3.91	-4.73	.0071	.0043	.0129	.0006	.0123	.0148	-.0021
14816	.300	6074.1	8.15	-4.71	.0178	.0059	.0311	.0014	.0129	.0162	-.0011
14817	.299	6043.5	12.00	-4.71	.0276	.0084	.0469	.0020	.0127	.0166	.0001
14818	.300	6050.0	15.78	-4.74	.0389	.0120	.0640	.0029	.0135	.0191	.0018
14819	.300	6073.0	19.91	-4.56	.0507	.0169	.0820	.0037	.0131	.0198	.0039
14820	.301	6092.0	23.70	-4.39	.0613	.0233	.0984	.0046	.0145	.0218	.0054
14821	.300	6048.2	27.83	-4.56	.0723	.0311	.1166	.0062	.0145	.0262	.0073
14822	.300	6055.5	31.57	-4.45	.0811	.0391	.1324	.0079	.0153	.0304	.0077
14823	.300	6060.4	35.65	-4.46	.0877	.0469	.1455	.0091	.0153	.0321	.0080
14824	.301	6093.9	39.63	-4.60	.0969	.0584	.1627	.0057	.0099	.0168	.0086
14825	.301	6089.5	43.55	-4.28	.1067	.0726	.1820	-.0030	-.0001	-.0083	.0084
14826	.300	6070.9	47.65	-4.26	.1122	.0861	.1975	-.0027	.0004	.0035	.0082
14827	.300	6072.2	.52	-4.87	-.0005	.0044	-.0004	.0001	.0130	.0155	-.0024

NASA LANGLEY											
7 X 10 HIGH SPEED TUNNEL											
TEST	24	MACH		Q		RUN 158		CN2		CA2	
TP		NUMB	PA	ALPHA2	BETA2	CN2	CA2	CM2	CRM2	CYM2	CY2
NUM				DEG	DEG						CDC2
14812	.300	6075.4	.31	-5.00	-.0012	.0043	-.0017	.0000	.0134	.0159	-.0006
14813	.301	6082.9	-1.82	-5.16	-.0023	.0040	-.0046	.0001	.0116	.0140	-.0005
14814	.300	6081.5	.42	-5.11	-.0001	.0044	-.0002	.0000	.0132	.0157	-.0006
14815	.300	6065.6	3.91	-4.73	.0074	.0038	.0129	-.0002	.0123	.0148	-.0005
14816	.300	6074.1	8.15	-4.71	.0184	.0033	.0311	-.0004	.0129	.0162	-.0003
14817	.299	6043.5	12.00	-4.71	.0287	.0024	.0469	-.0006	.0128	.0166	.0000
14818	.300	6050.0	15.78	-4.74	.0407	.0010	.0640	-.0008	.0138	.0191	.0005
14819	.300	6073.0	19.91	-4.56	.0534	-.0013	.0820	-.0010	.0136	.0198	.0010
14820	.301	6092.0	23.70	-4.39	.0655	-.0033	.0984	-.0011	.0140	.0218	.0014
14821	.300	6048.2	27.83	-4.56	.0785	-.0062	.1166	-.0013	.0157	.0262	.0019
14822	.300	6055.5	31.57	-4.45	.0895	-.0092	.1324	-.0013	.0172	.0304	.0020
14823	.300	6060.4	35.65	-4.46	.0986	-.0130	.1455	-.0016	.0177	.0321	.0021
14824	.301	6093.9	39.63	-4.60	.1119	-.0168	.1627	-.0020	.0113	.0168	.0022
14825	.301	6089.5	43.55	-4.28	.1273	-.0209	.1820	-.0021	-.0021	-.0083	.0021
14826	.300	6070.9	47.65	-4.26	.1392	-.0250	.1975	-.0021	-.0017	.0035	.0022
14827	.300	6072.2	.52	-4.87	-.0005	.0044	-.0004	-.0000	.0130	.0155	-.0006

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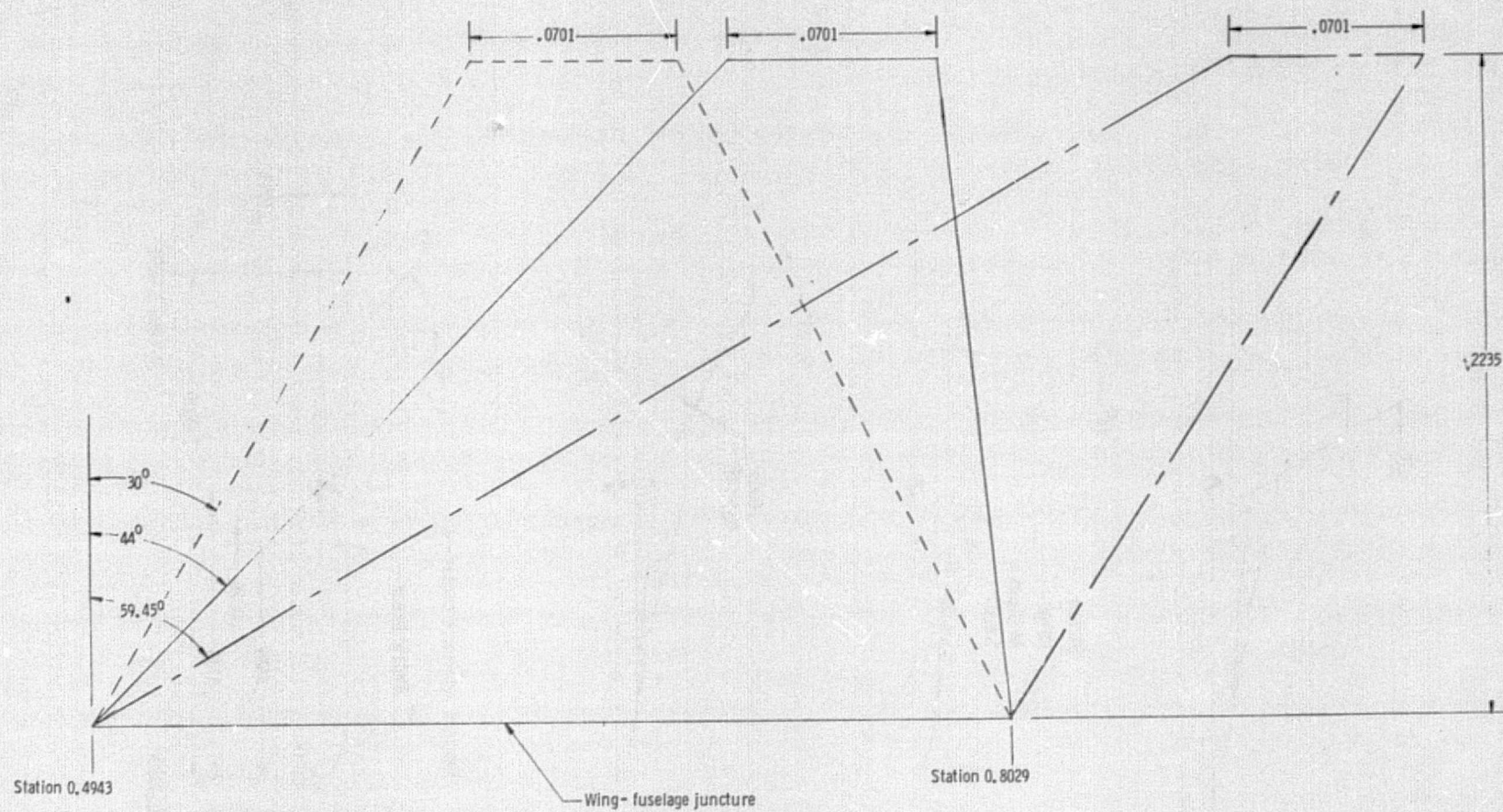


(a) General arrangement.

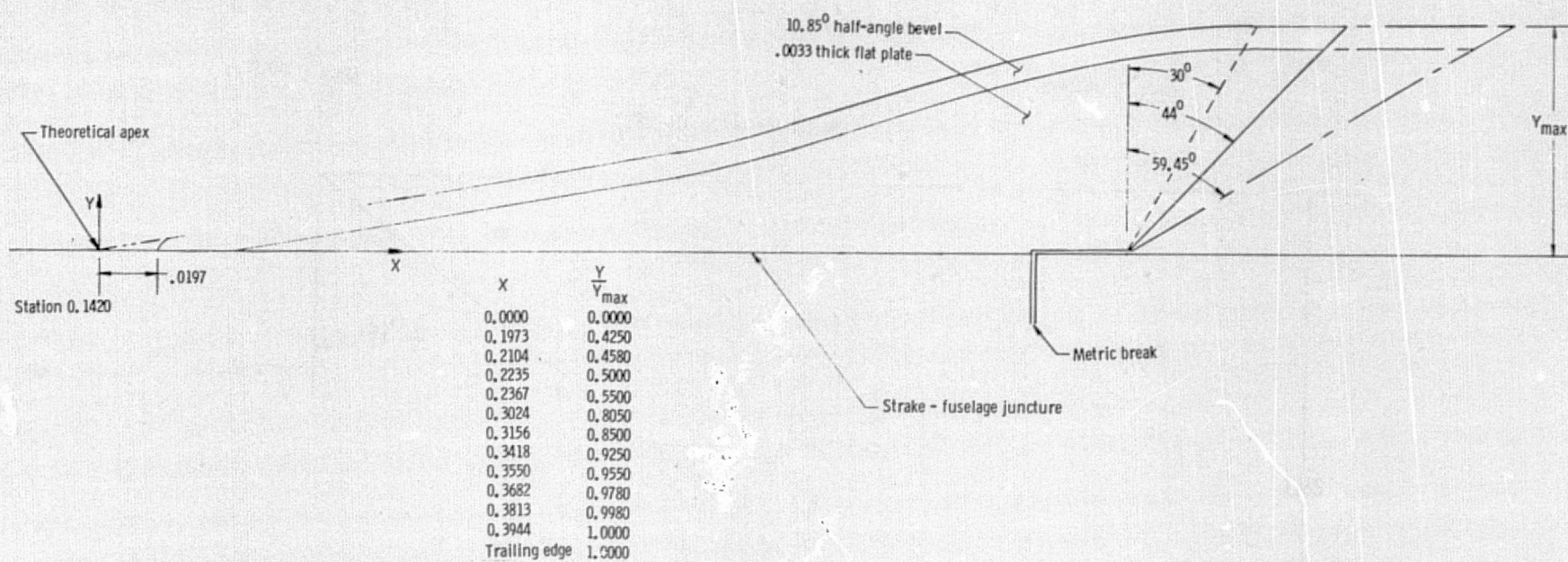
Figure 1. Drawings of the models tested. All dimensions are based on a fuselage length of 0.96589 m. (38.027 in.)

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(b) Details of the wings.  
Figure 1. Continued.

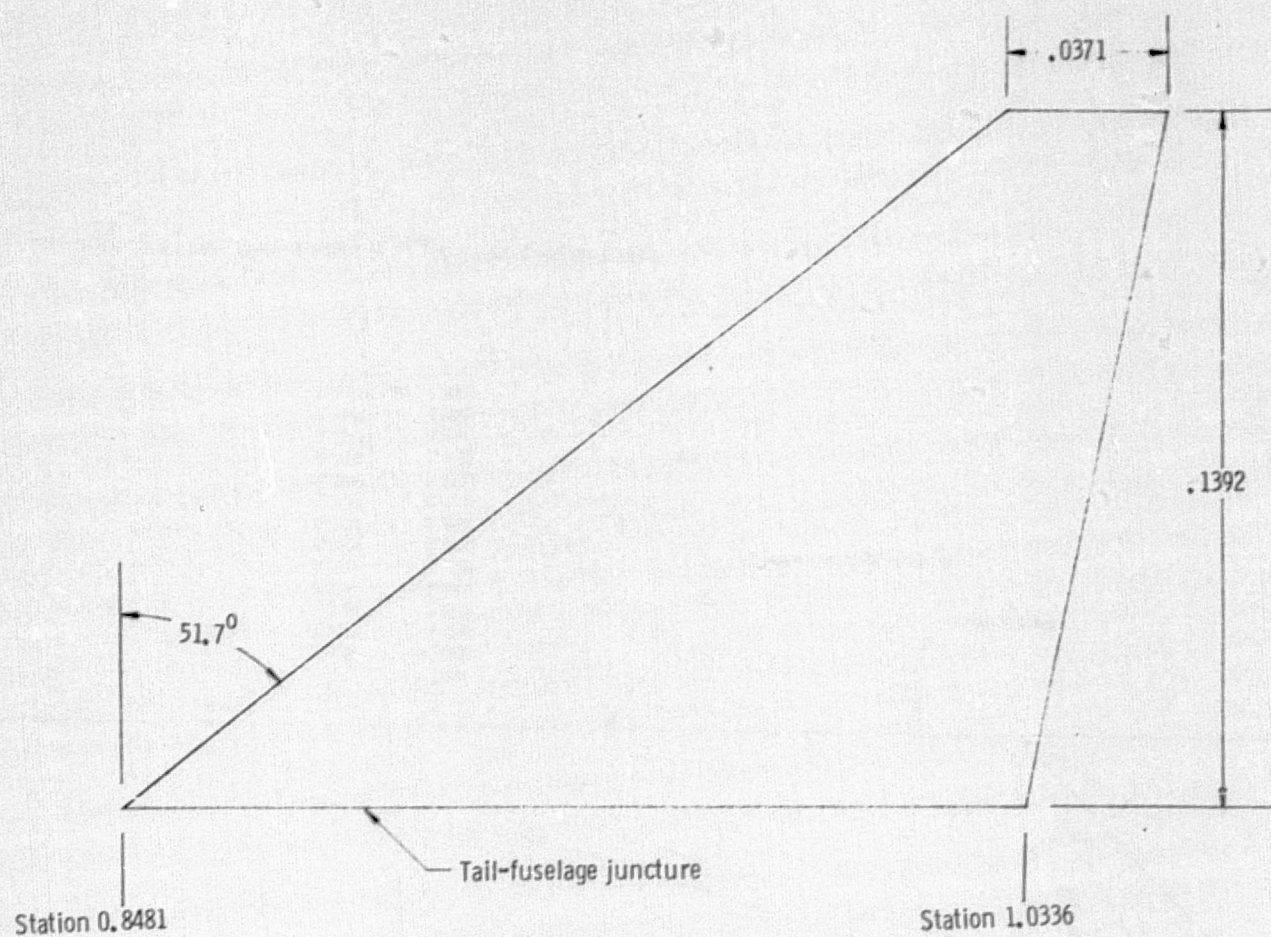


(c) Details of the strakes. The three strakes are defined by Y<sub>max</sub> of 0.0263, 0.526, and 0.789.

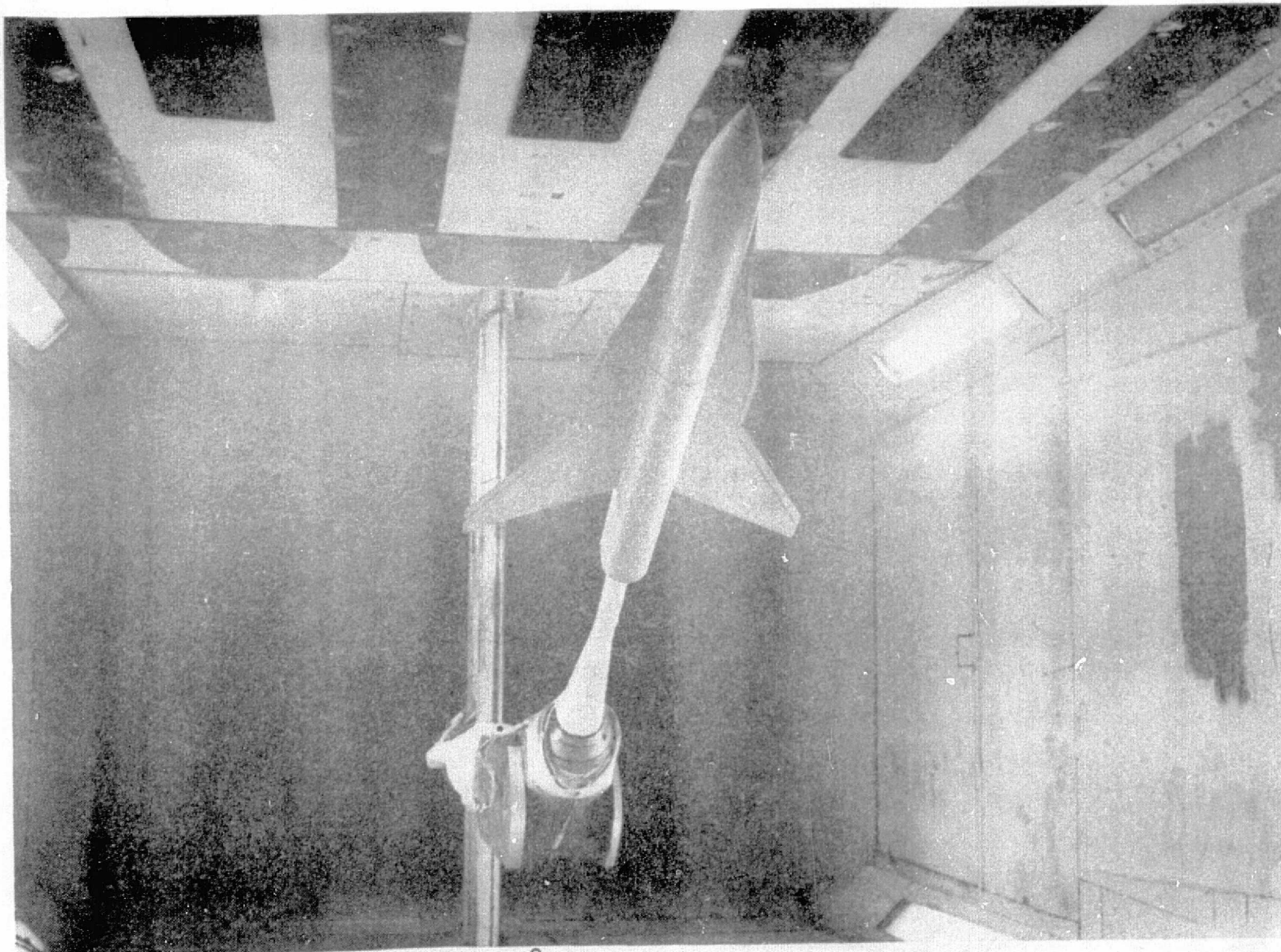
Figure 1. Continued.

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(d) Details of the vertical tail.  
Figure 1. Concluded.



(a) Front view. Wing sweep =  $60^{\circ}$ , large strake.

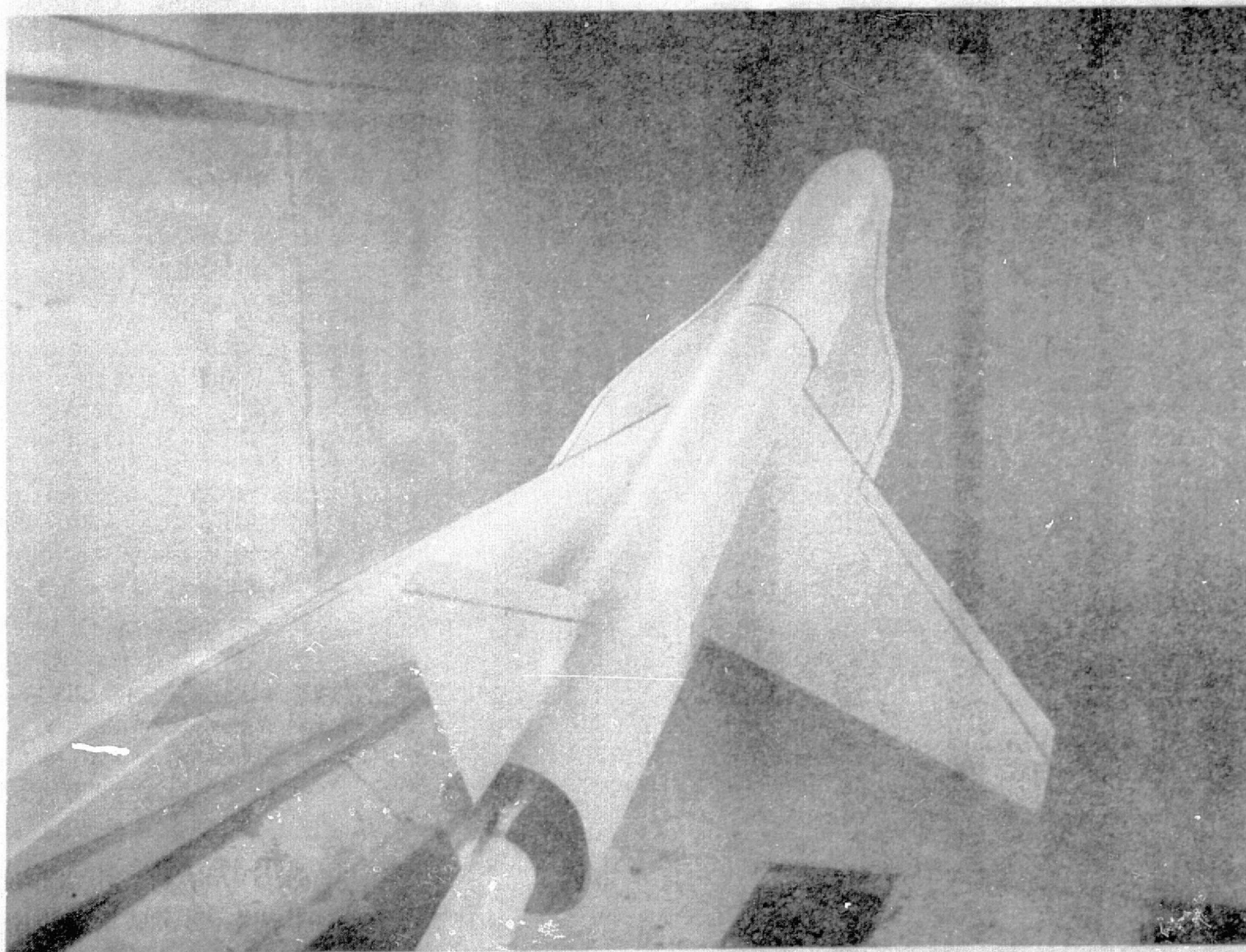
Figure 2. Photographs of the model tested in the Langley 7- by 10-foot high speed tunnel.

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NASA

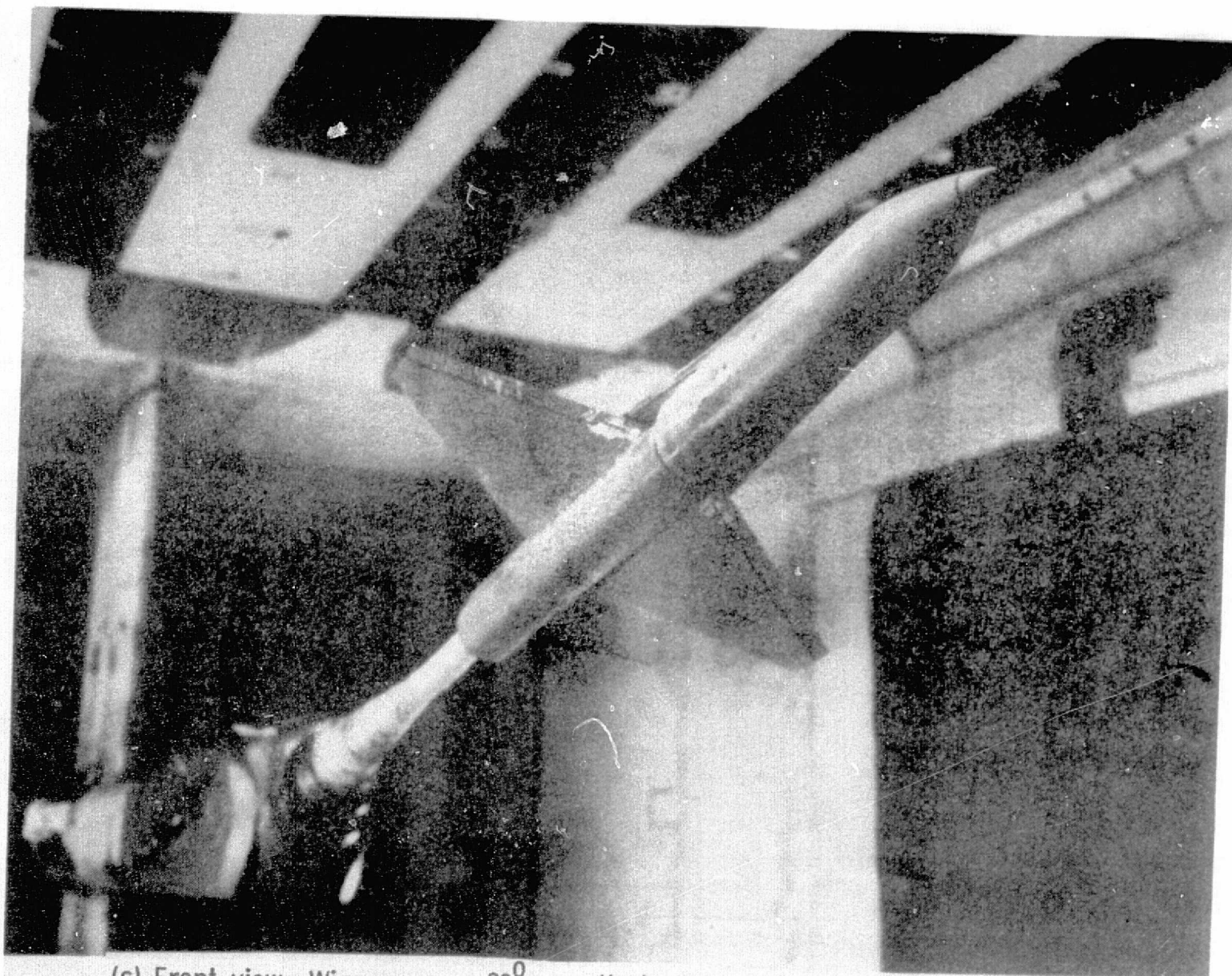
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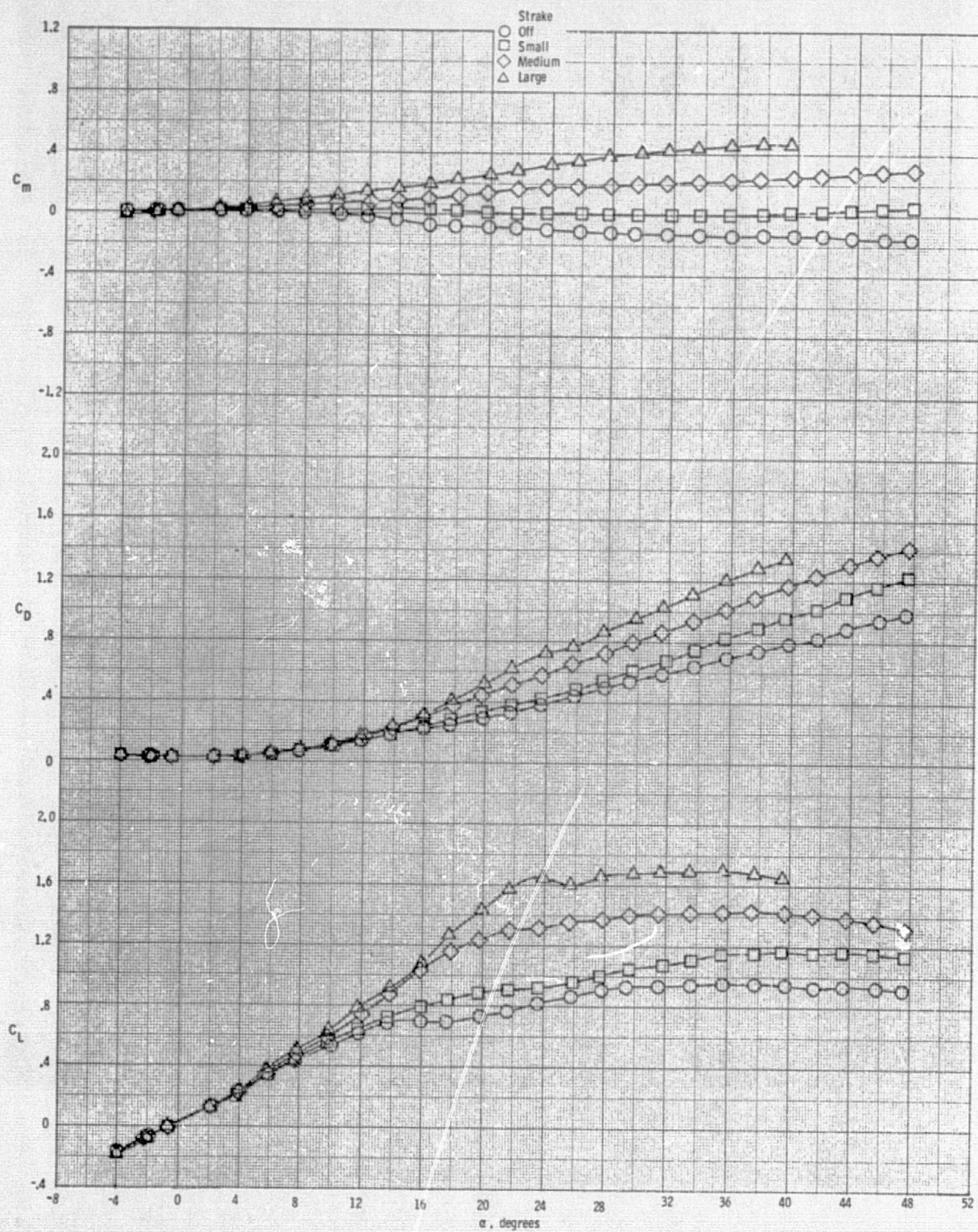


(b) Rear view. Wing sweep =  $60^{\circ}$ , large strake.  
Figure 2. Continued.

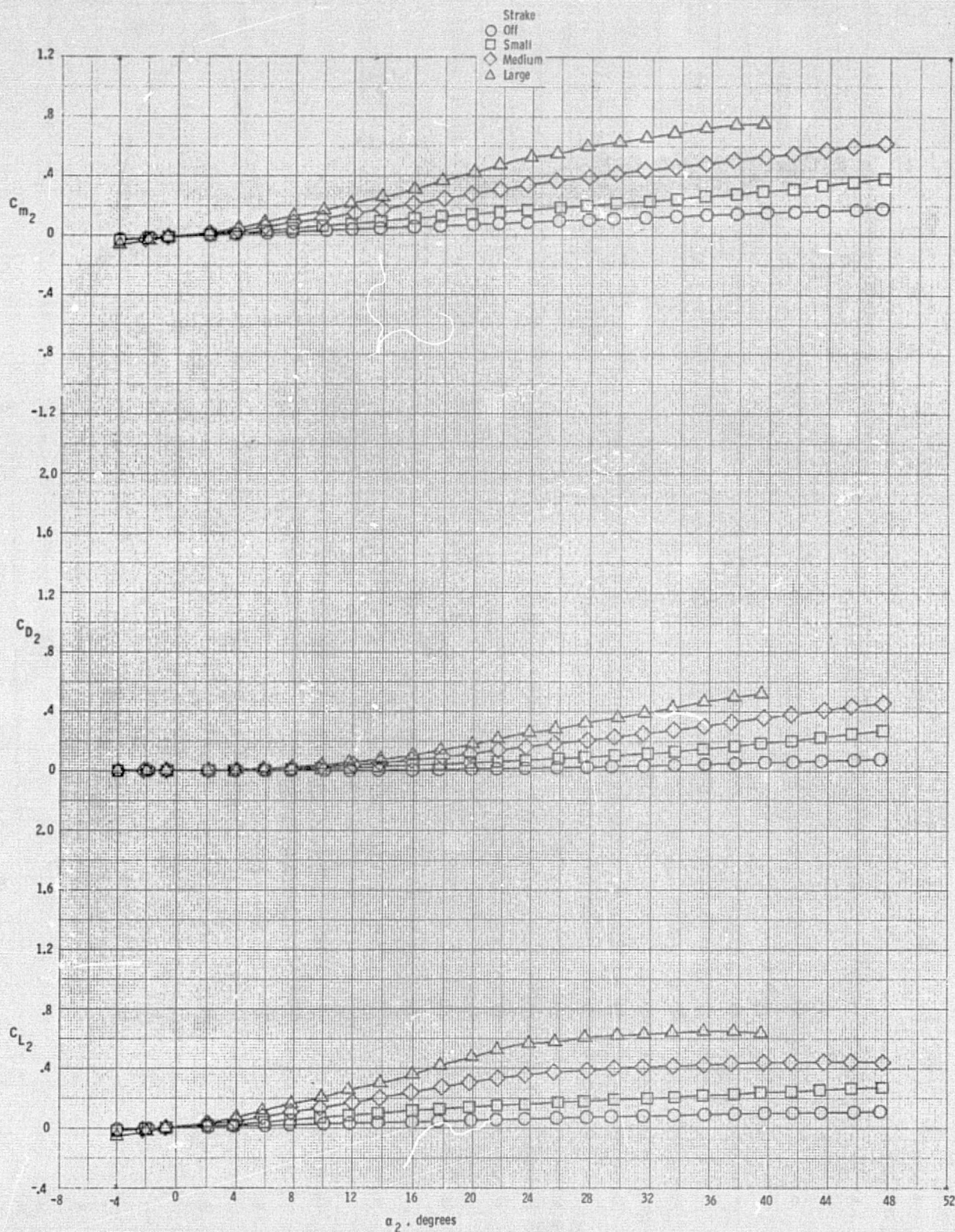


(c) Front view. Wing sweep =  $30^{\circ}$ , small strake.  
Figure 2. Concluded.





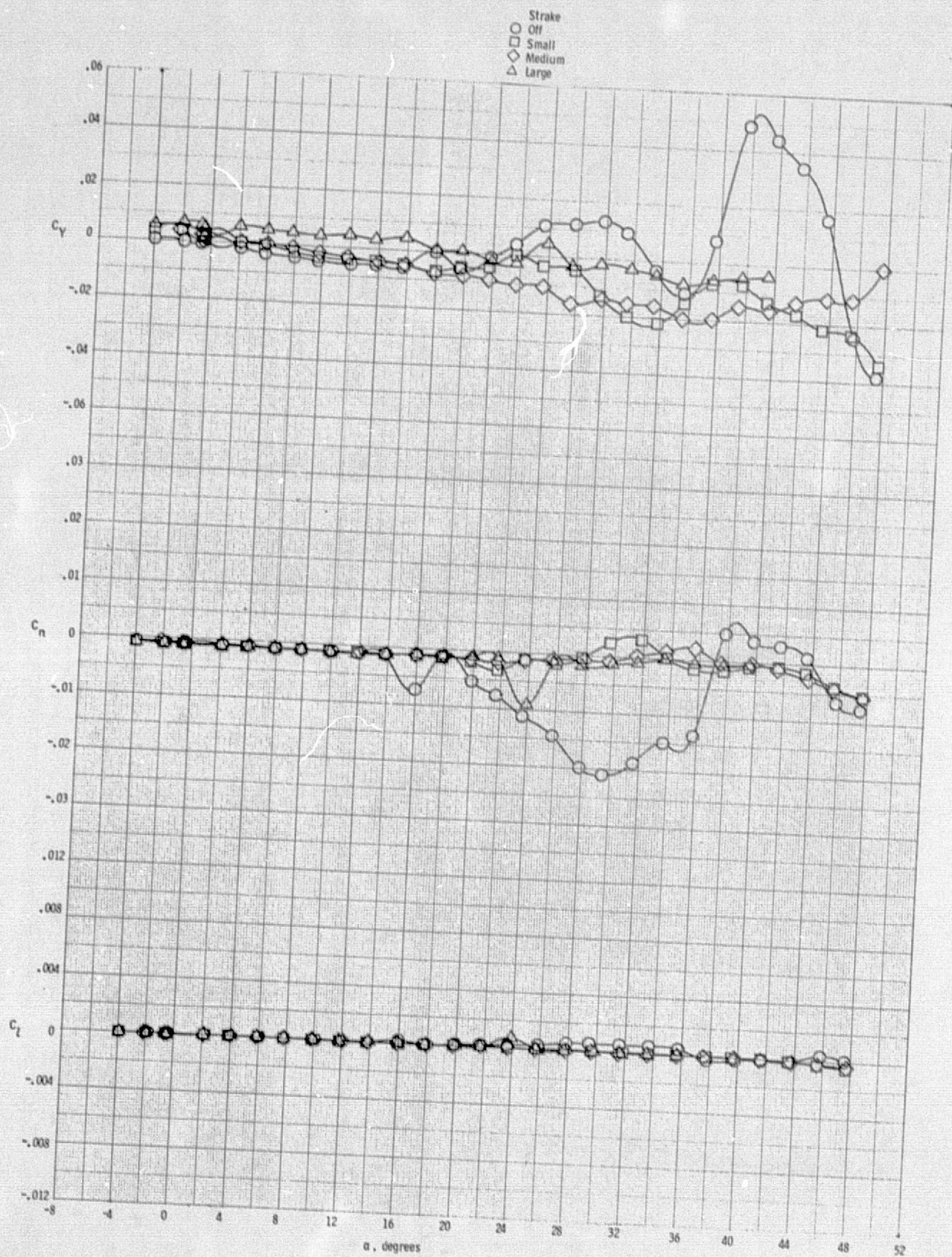
(a) Main balance longitudinal data.  
 Figure 3. Aerodynamic characteristics of the configurations with the  $30^\circ$  sweep wing.  $M = 0.3$ ,  $\beta = 0^\circ$ .



(b) Nose balance longitudinal data.  
 Figure 3. Continued.

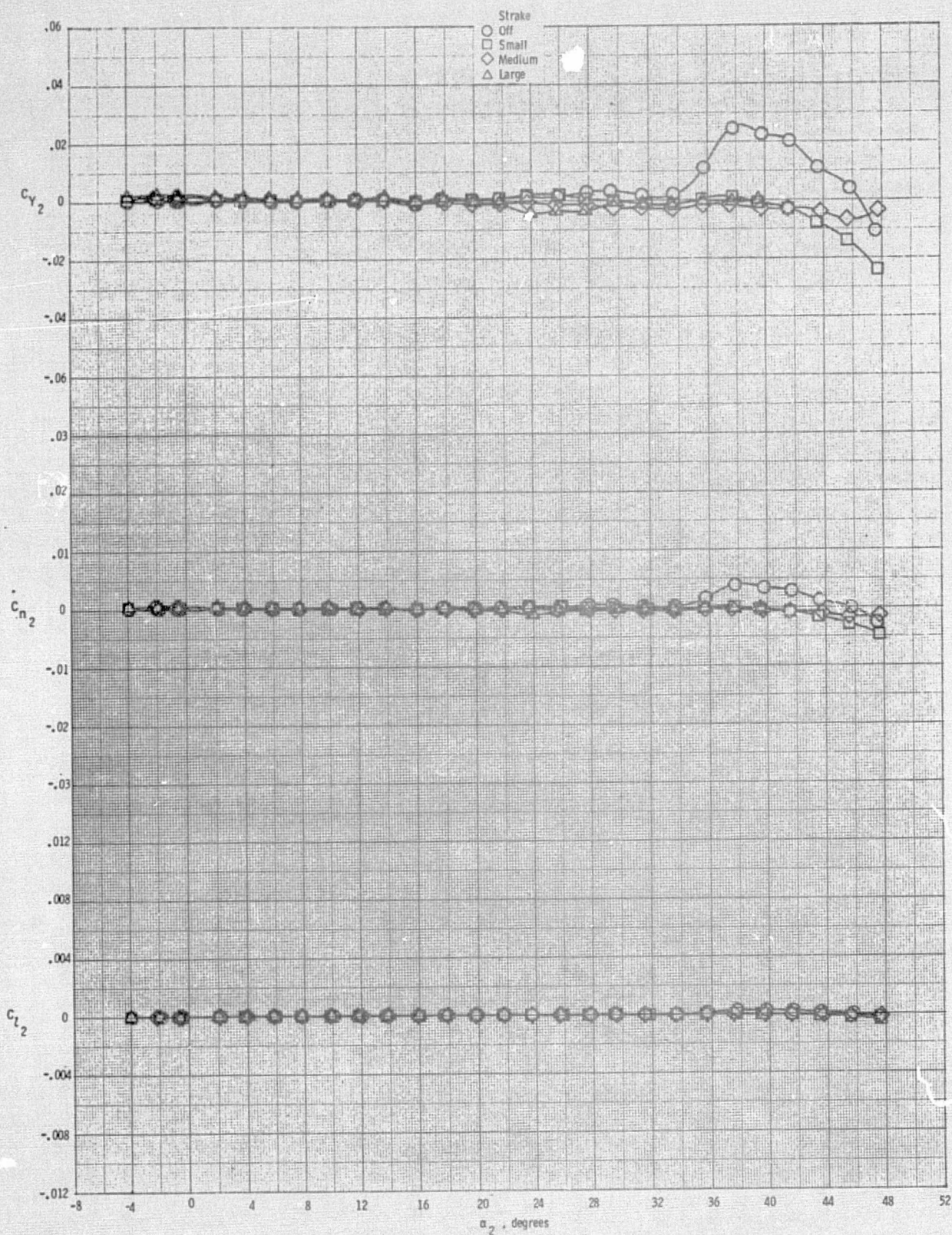
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(c) Main balance lateral-directional data.  
Figure 3. Continued.

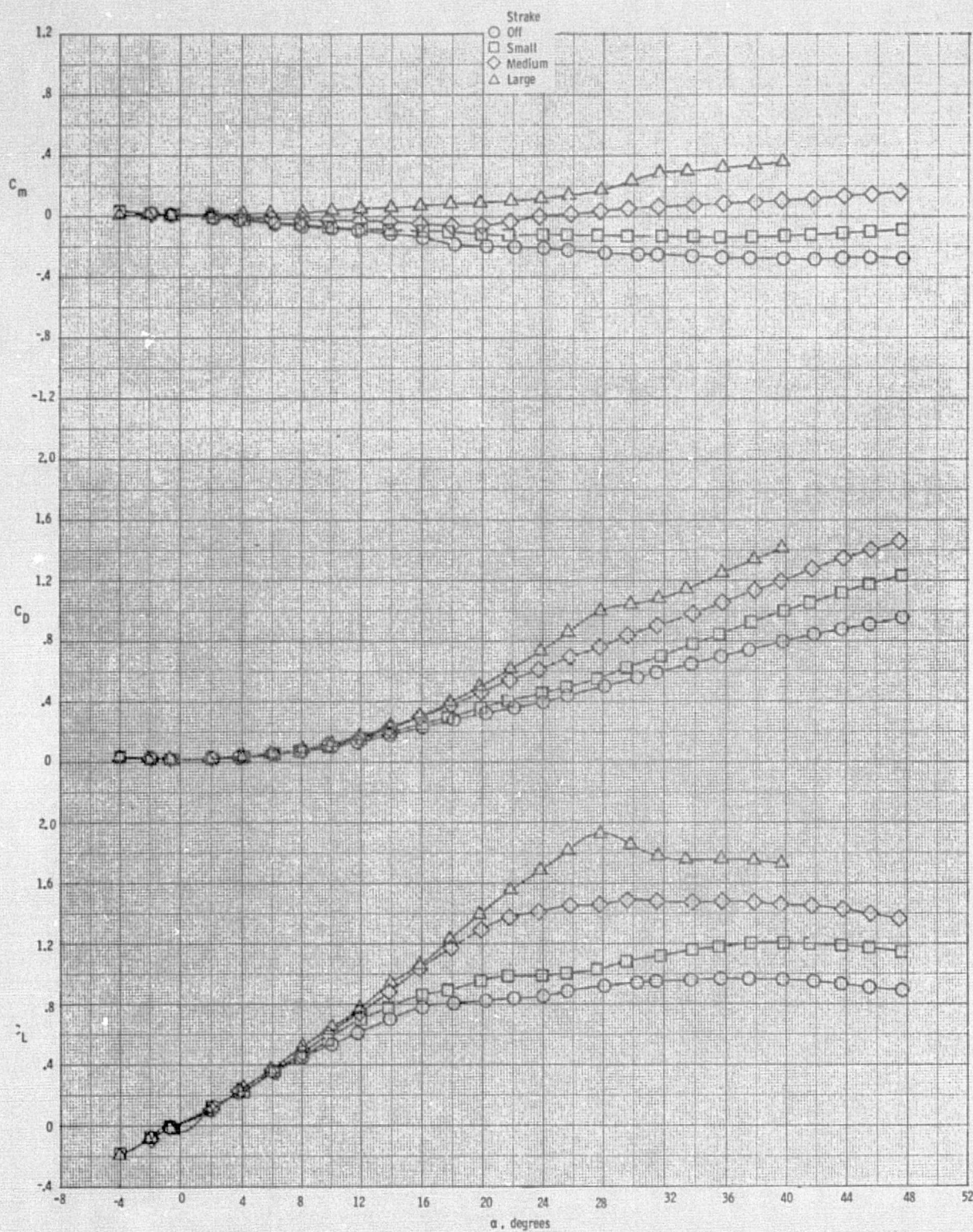




(d) Nose balance lateral-directional data.  
Figure 3. Concluded.

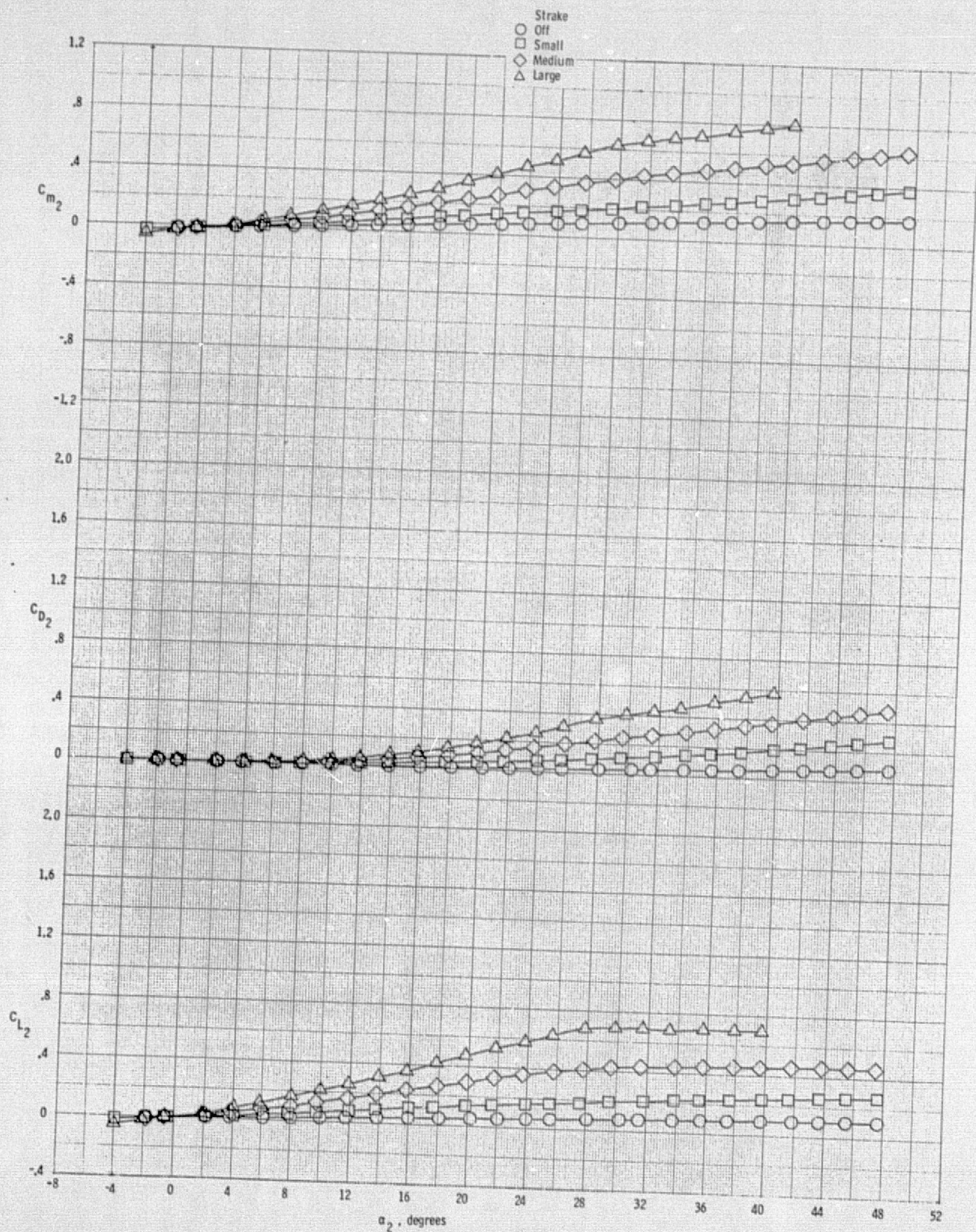
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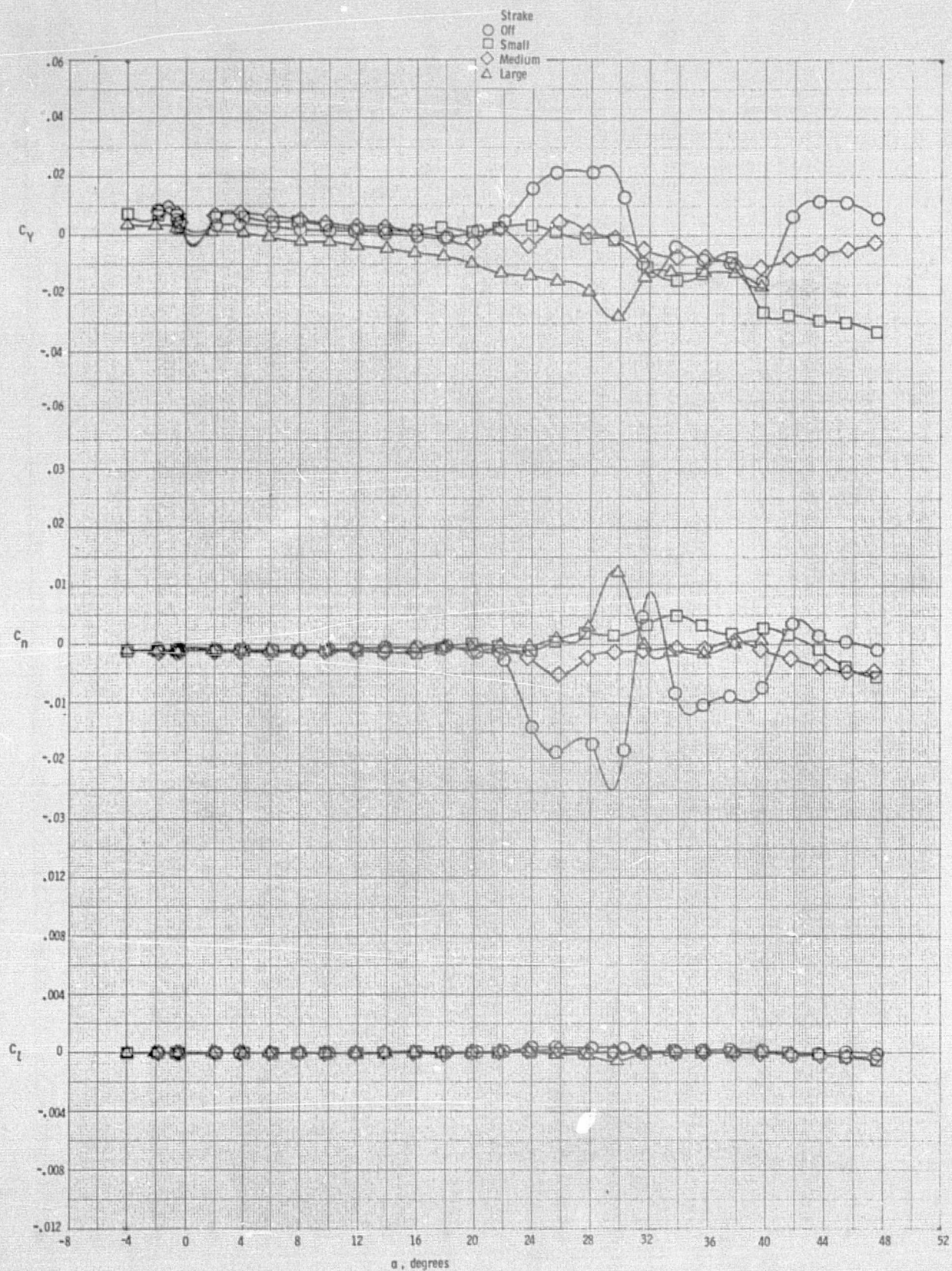
(a) Main balance longitudinal data.  
 Figure 4. Aerodynamic characteristics of the configurations with the  $44^\circ$  sweep wing.  $M = 0.3$ ,  $\beta = 0^\circ$ .





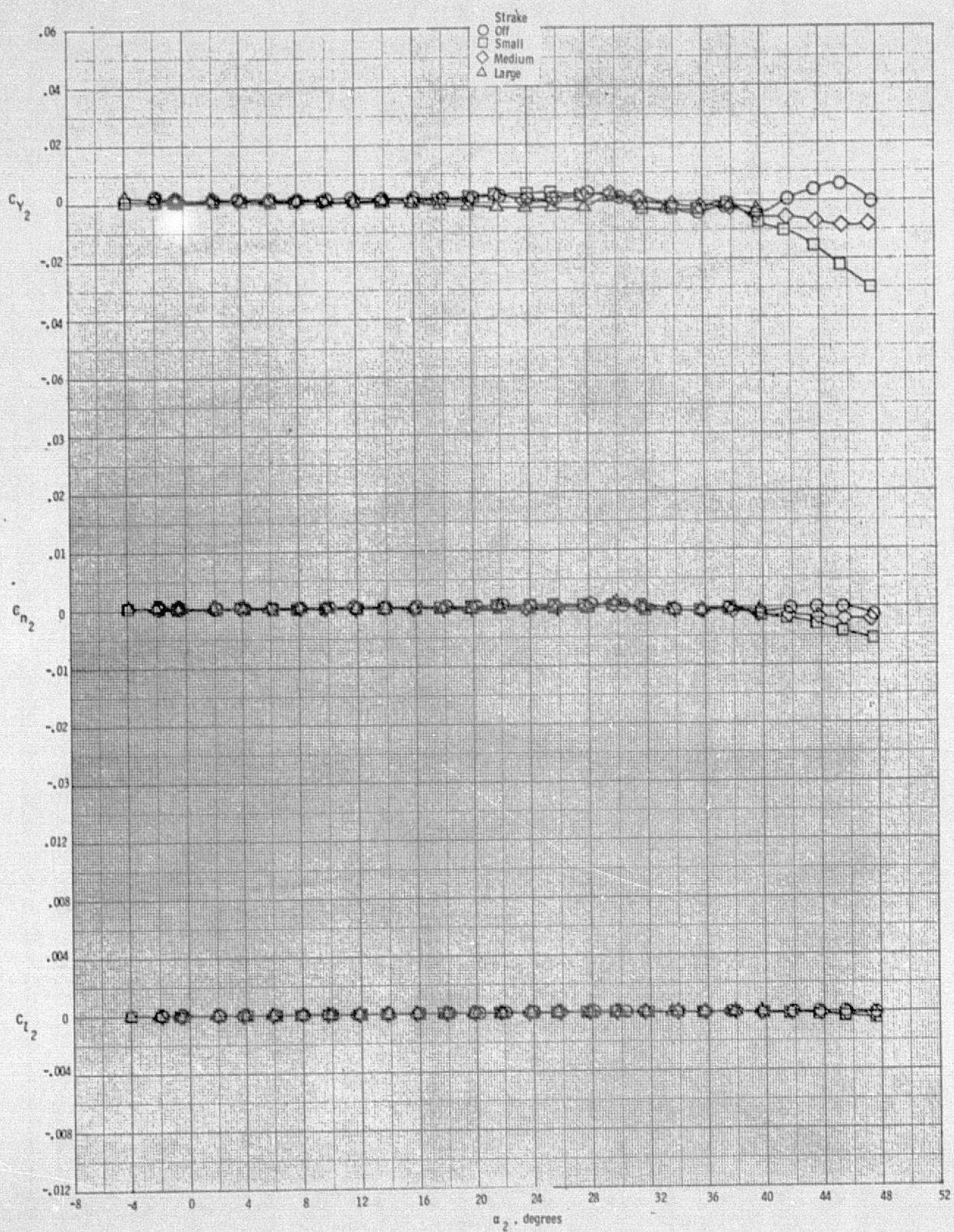
(b) Nose balance longitudinal data.  
Figure 4. Continued.

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(c) Main balance lateral-directional data,  
Figure 4. Continued.

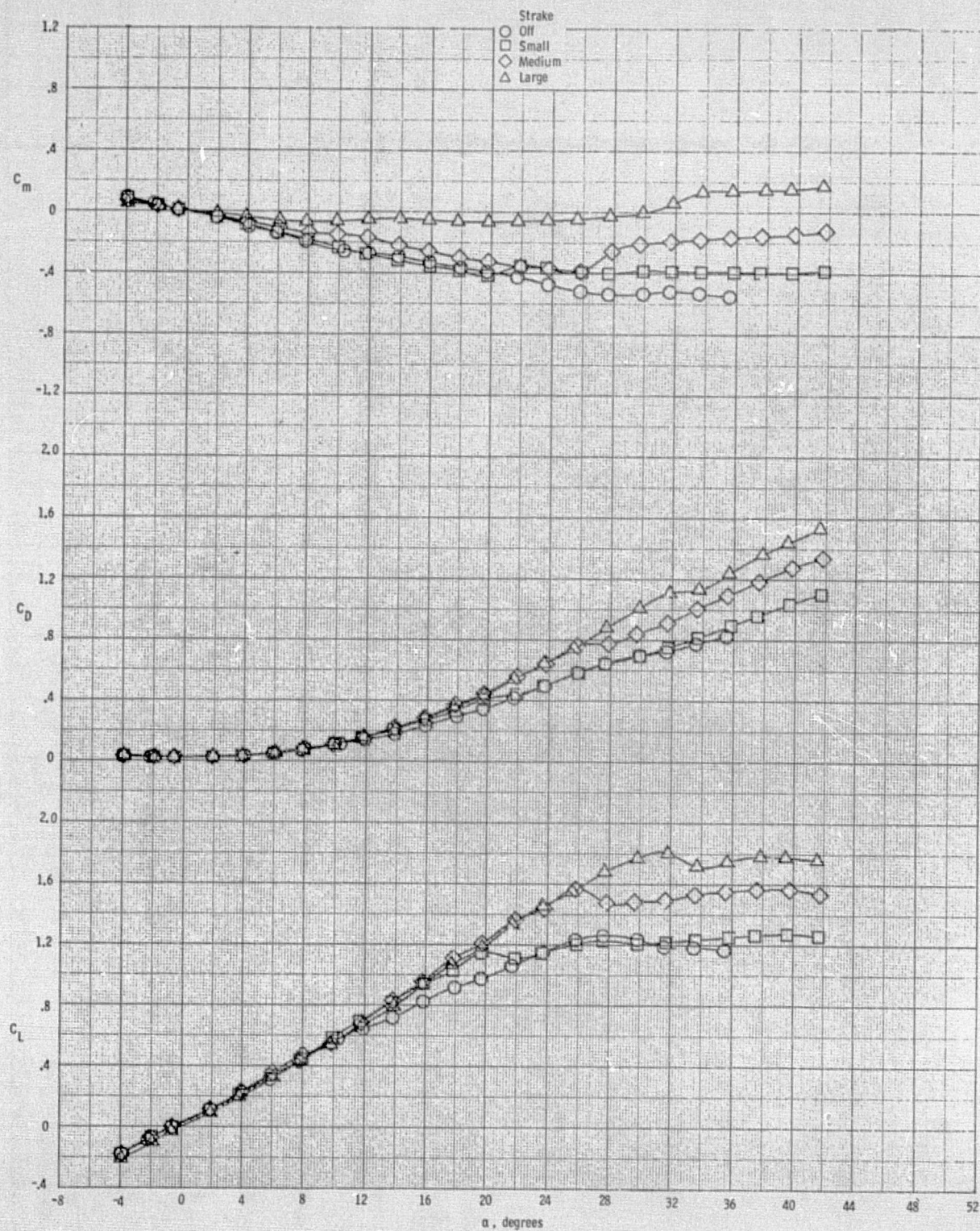




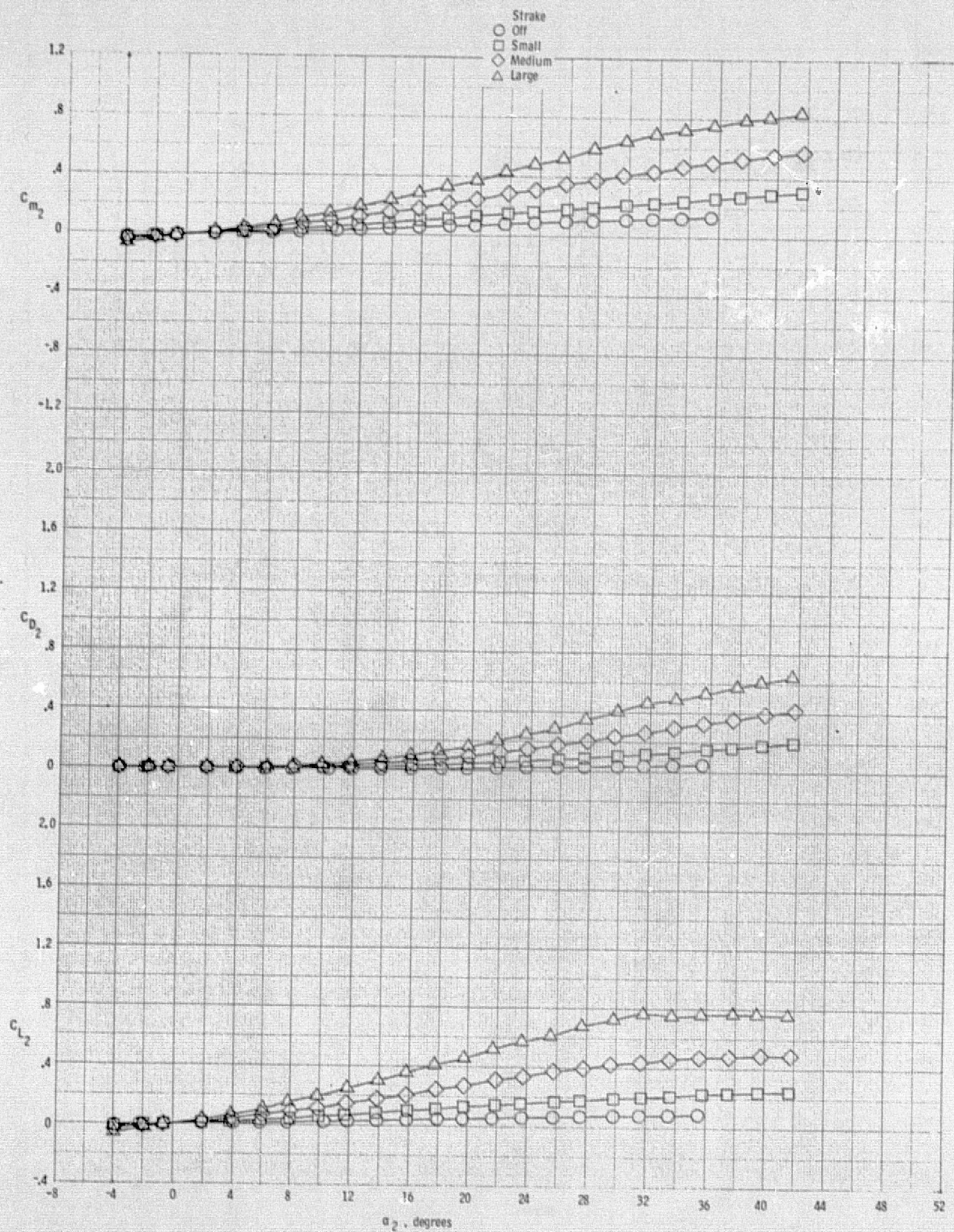
(d) Nose balance lateral-directional data.  
Figure 4. Concluded.

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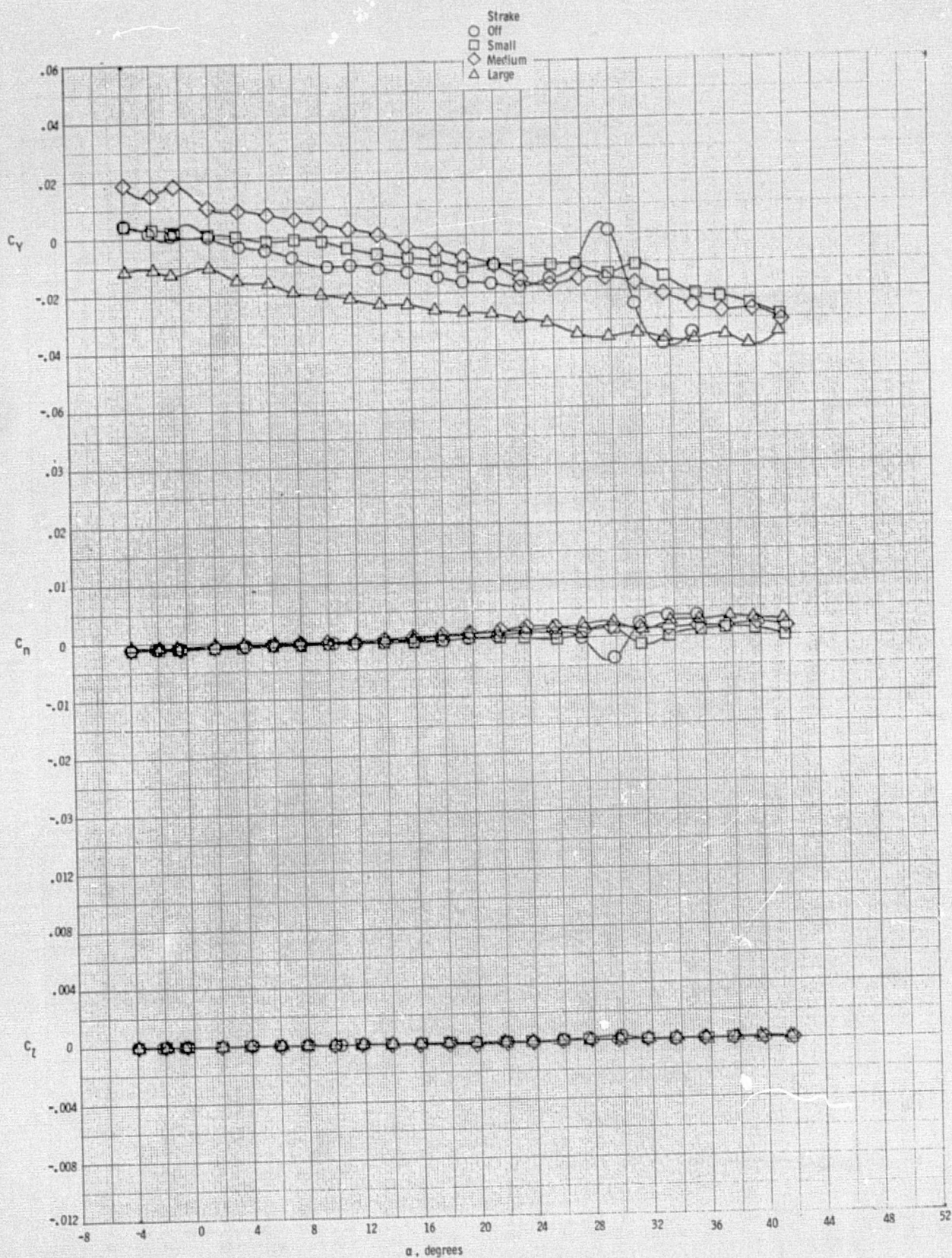
(a) Main balance longitudinal data.  
 Figure 5. Aerodynamic characteristics of the configurations with the  $60^\circ$  sweep wing.  $M = 0.3$ ,  $\beta = 0^\circ$ .



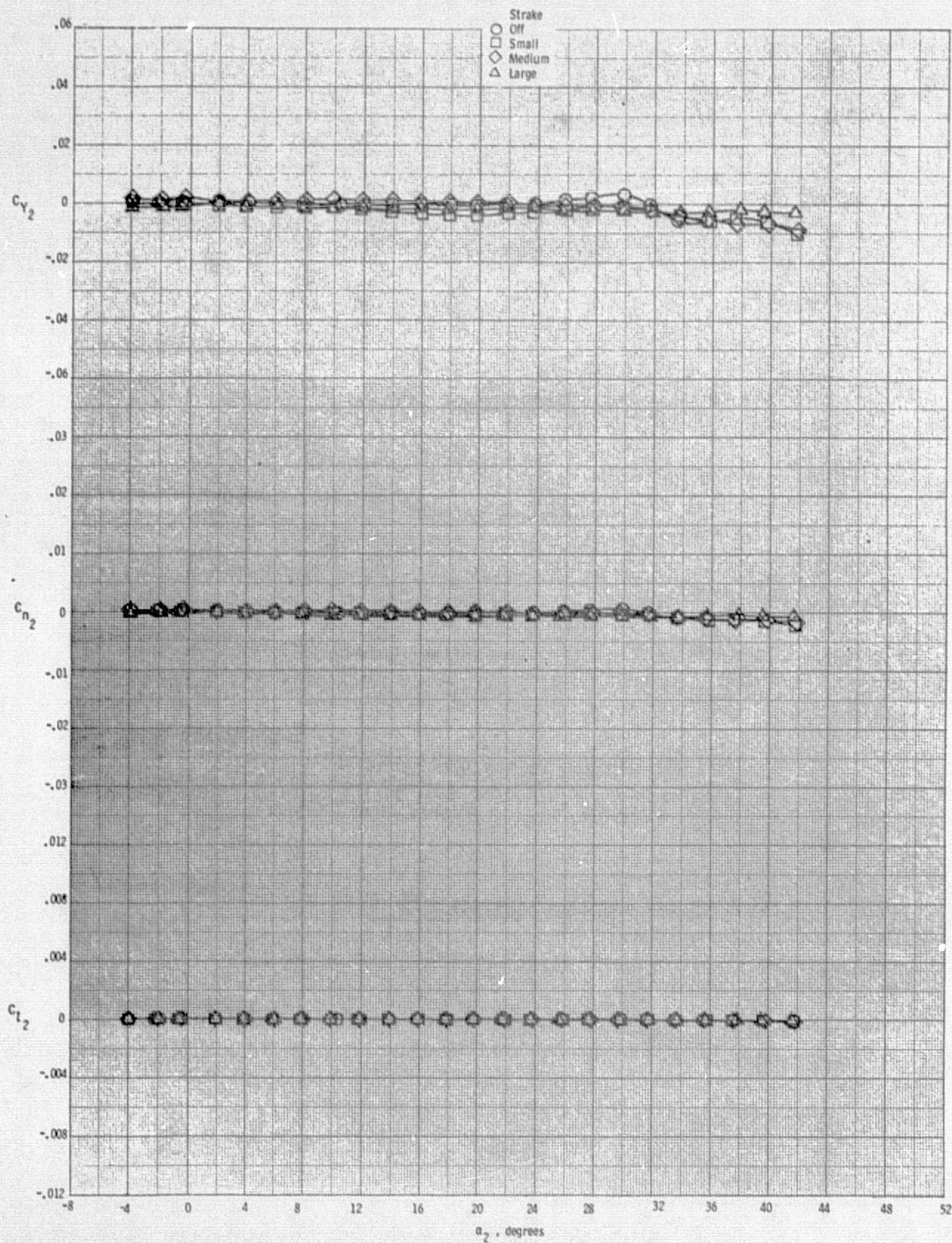
(b) Nose balance longitudinal data.  
Figure 5. Continued.

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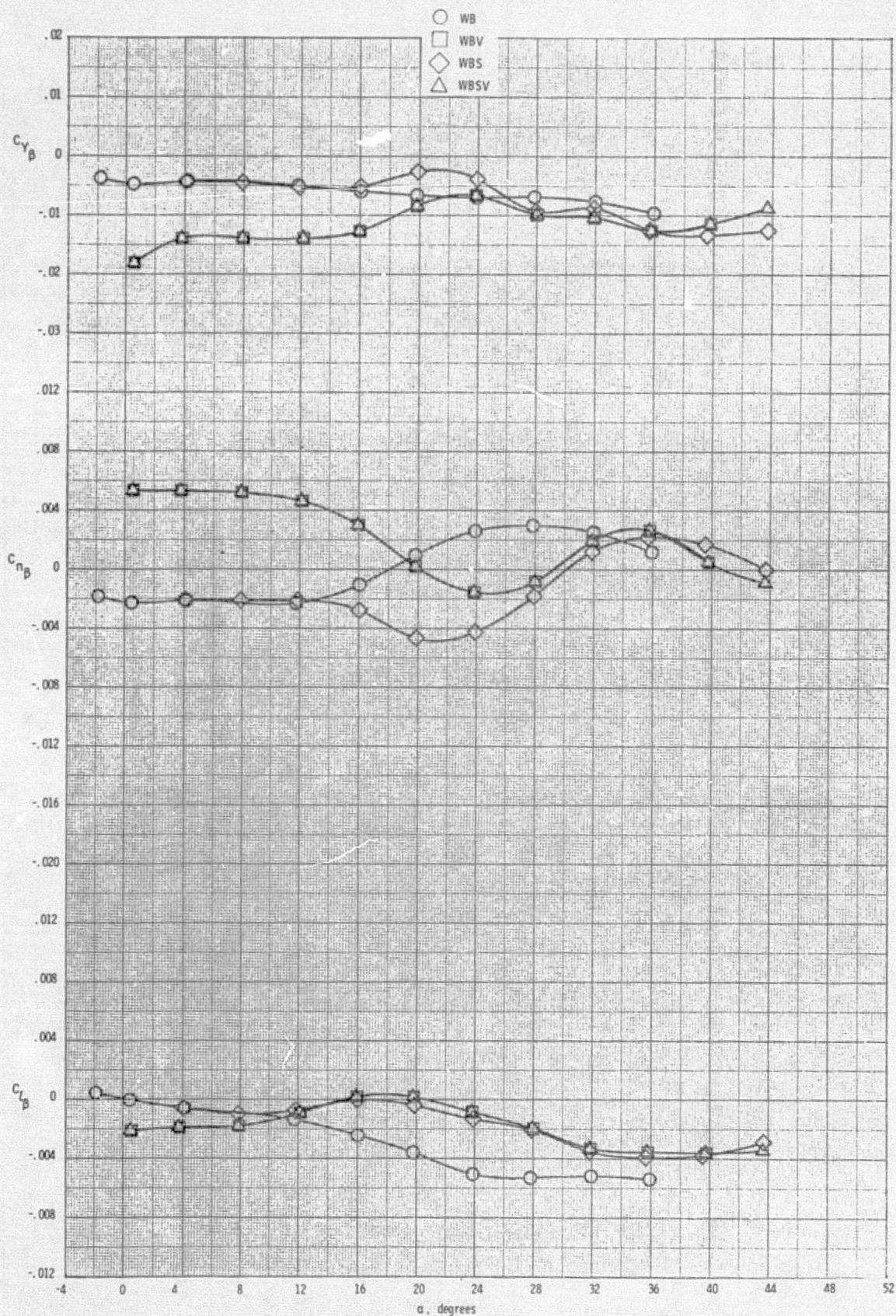
(c) Main balance lateral-directional data.  
 Figure 5. Continued.



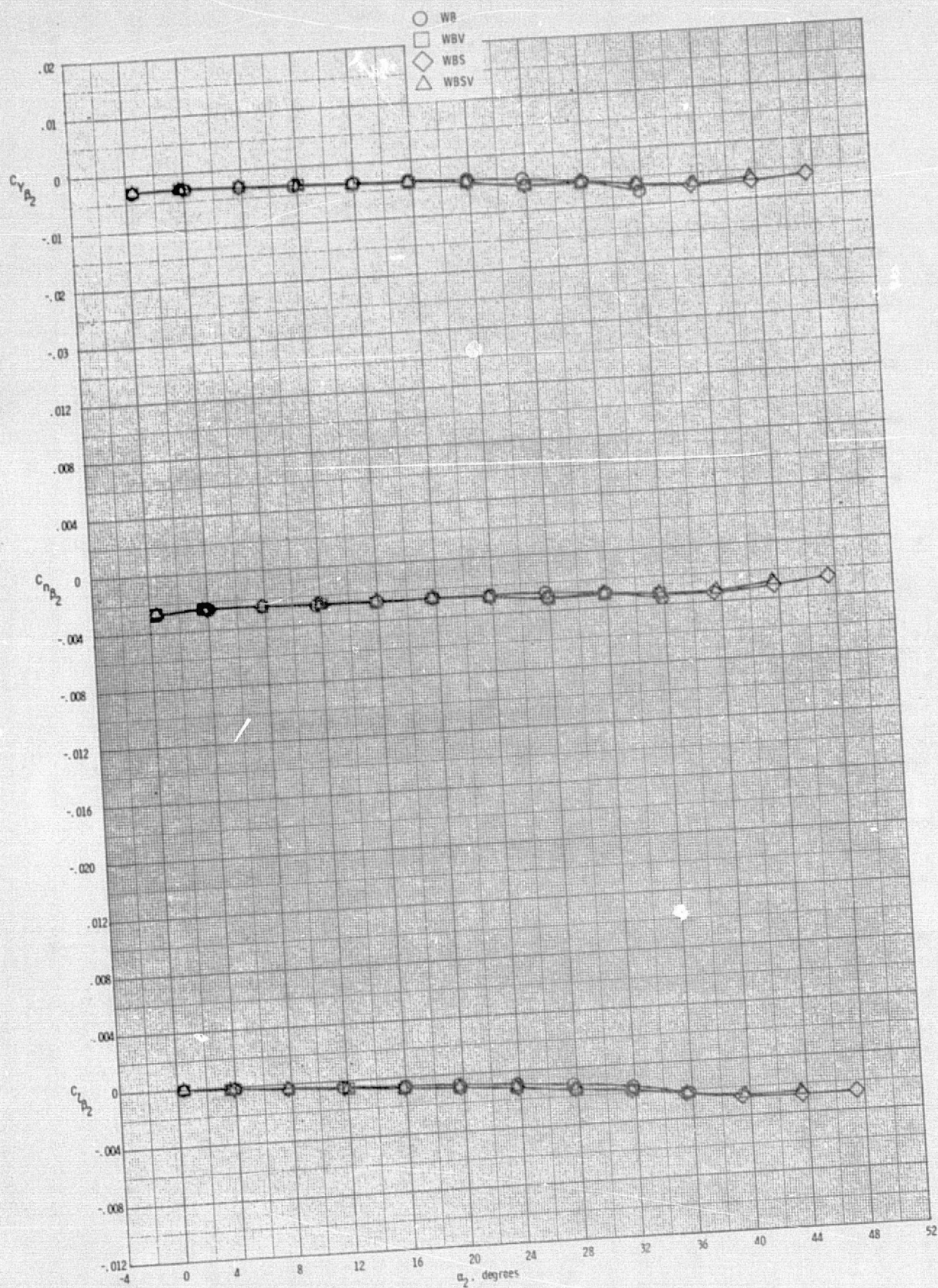
(d) Nose balance lateral-directional data.  
Figure 5. Concluded.

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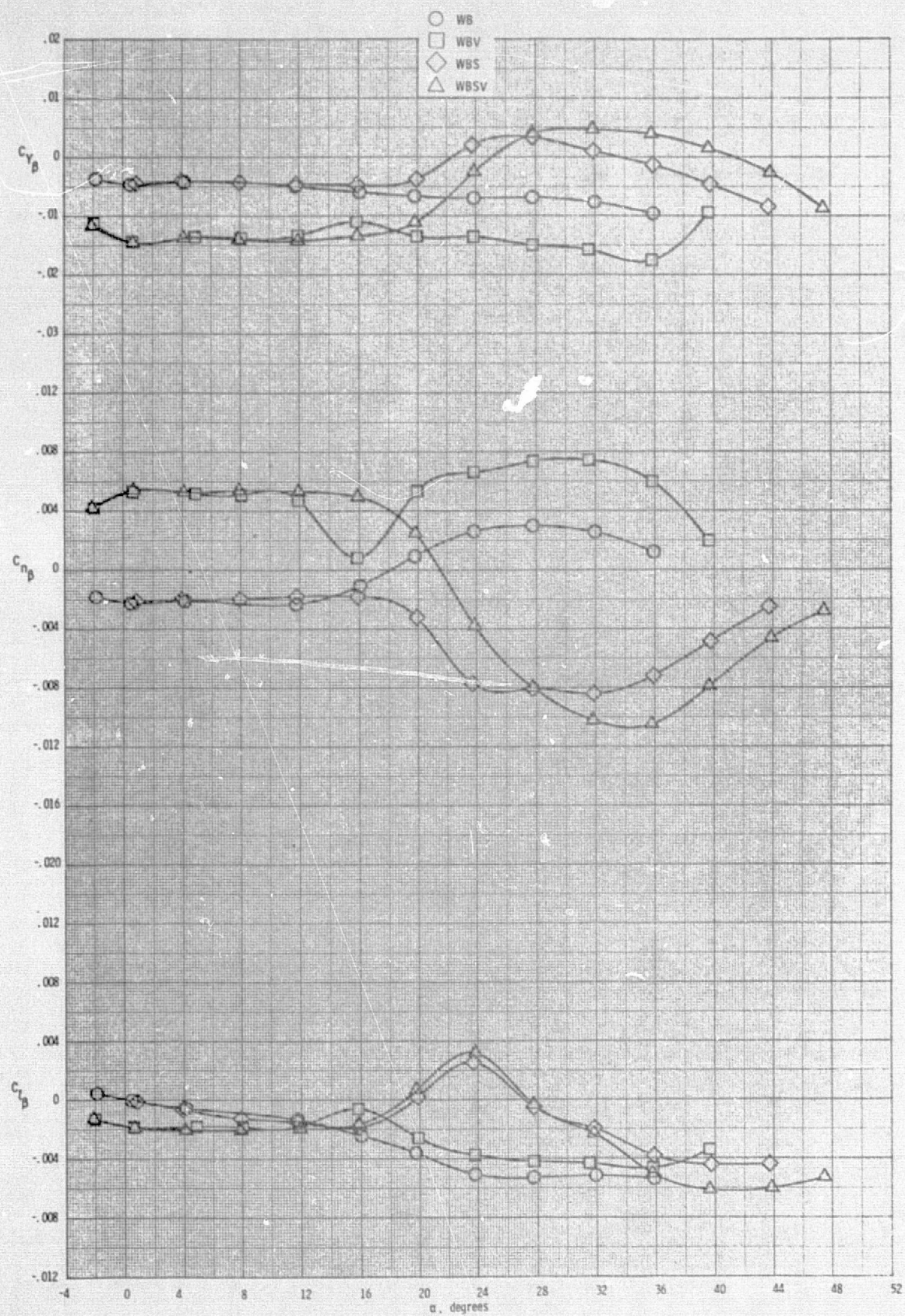
(a) Main balance small stroke data.  
Figure 6. Lateral-directional derivatives of the configurations with the 30° sweep wing.  $M = 0.3$ .



(b) Nose balance small stroke data.  
Figure 6. Continued.

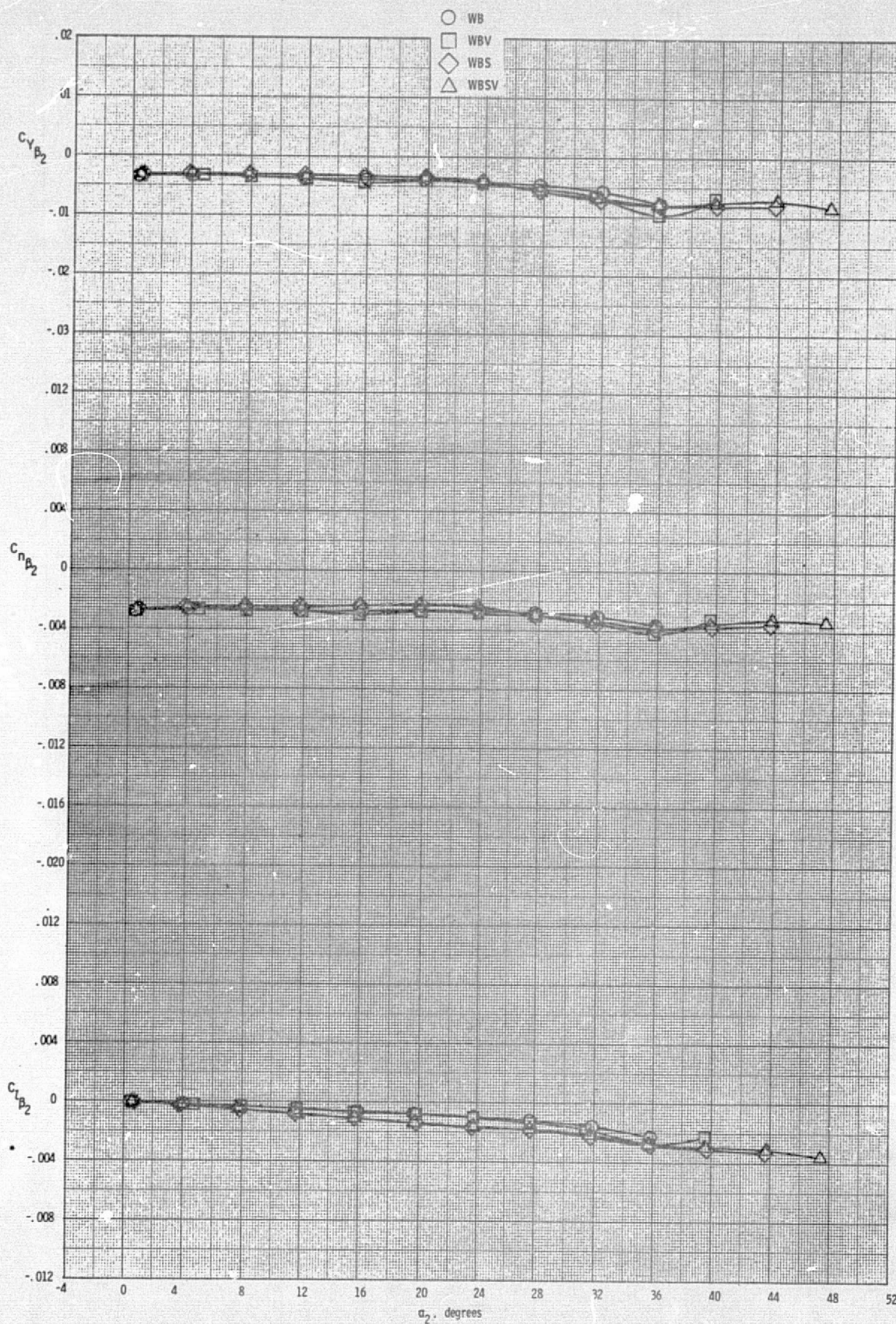
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(c) Main balance, medium strake data.  
Figure 6. Continued.

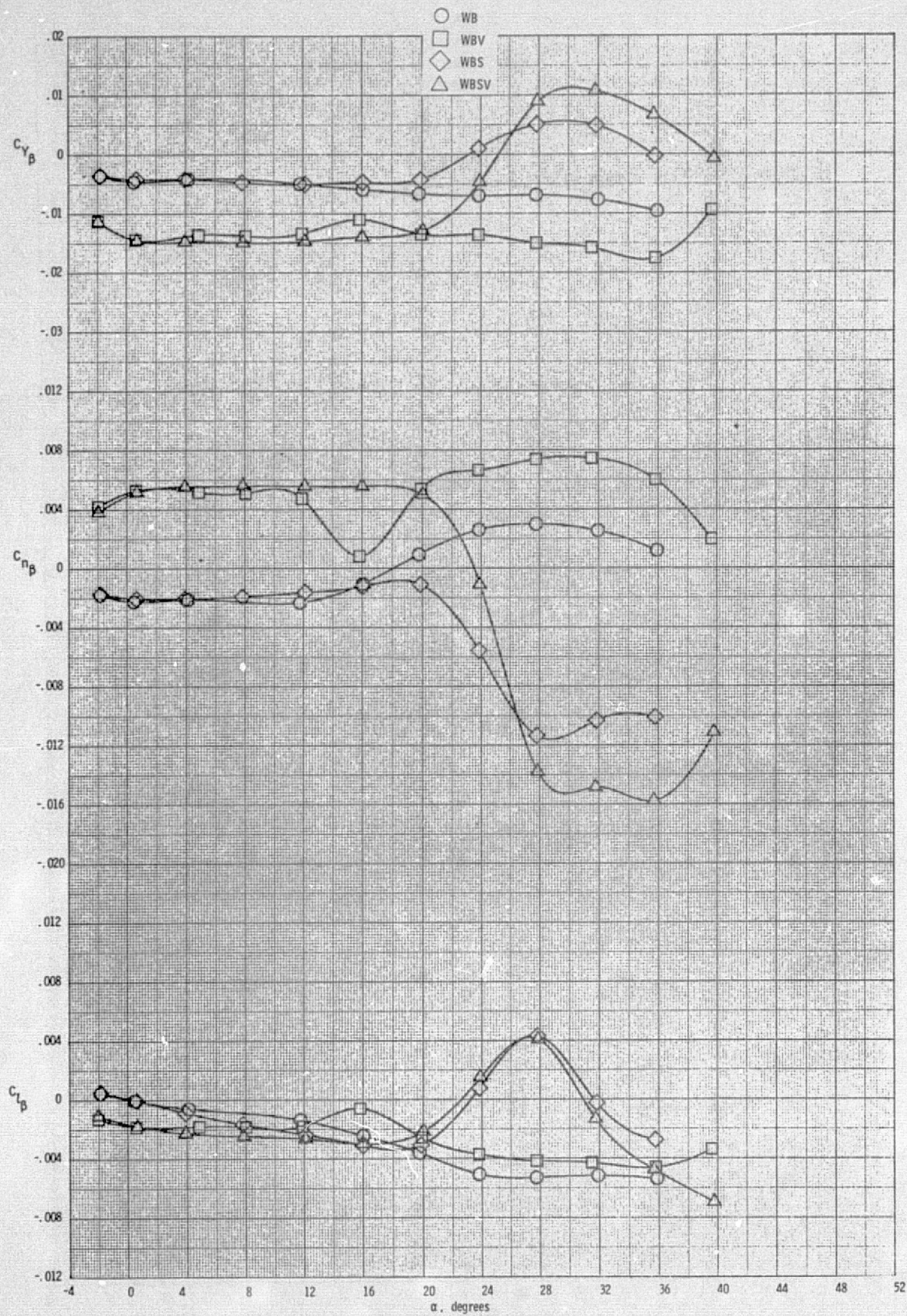




(d) Nose balance medium stroke data.  
Figure 6, Continued.

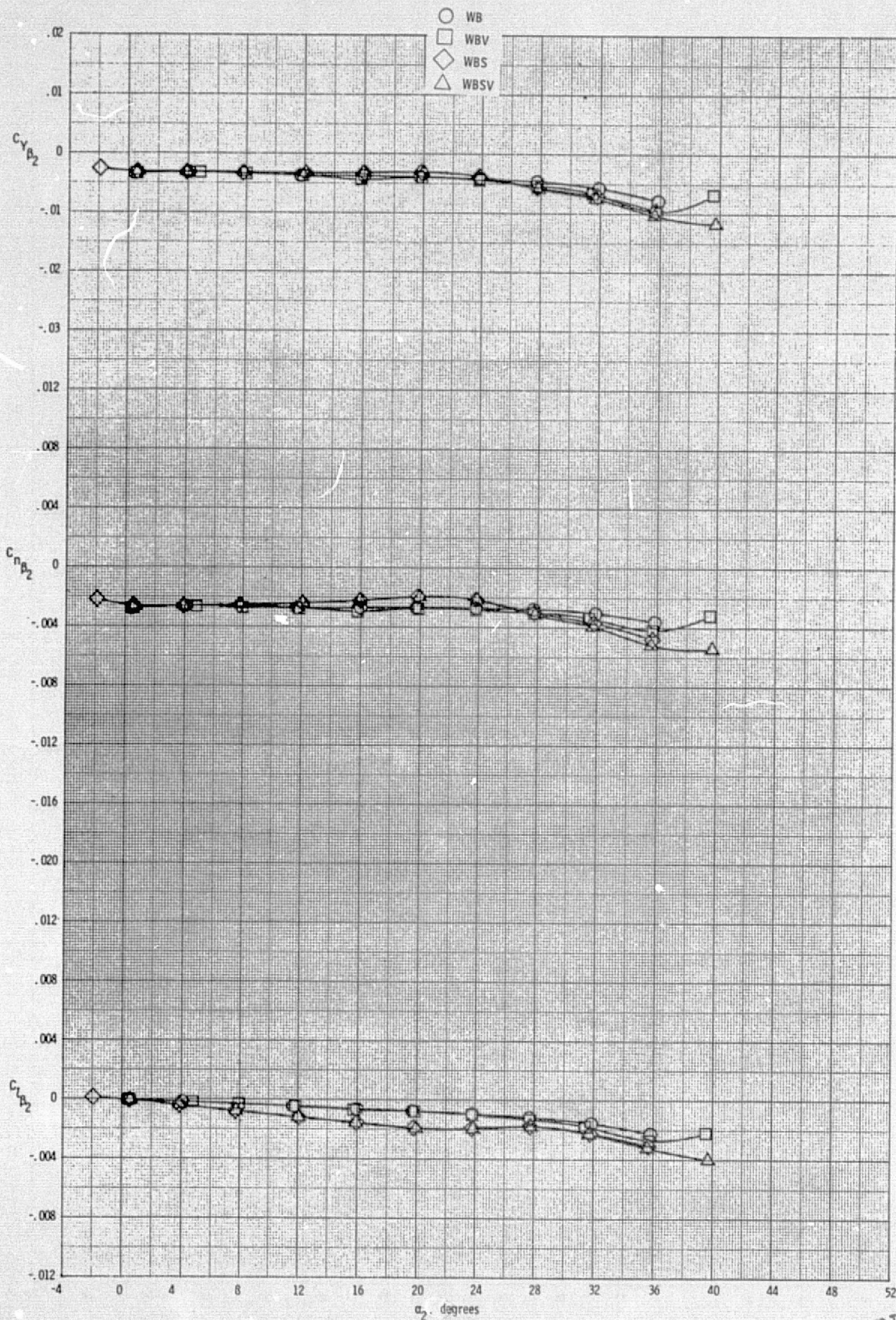
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(e) Main balance large stroke data.  
Figure 6. Continued.

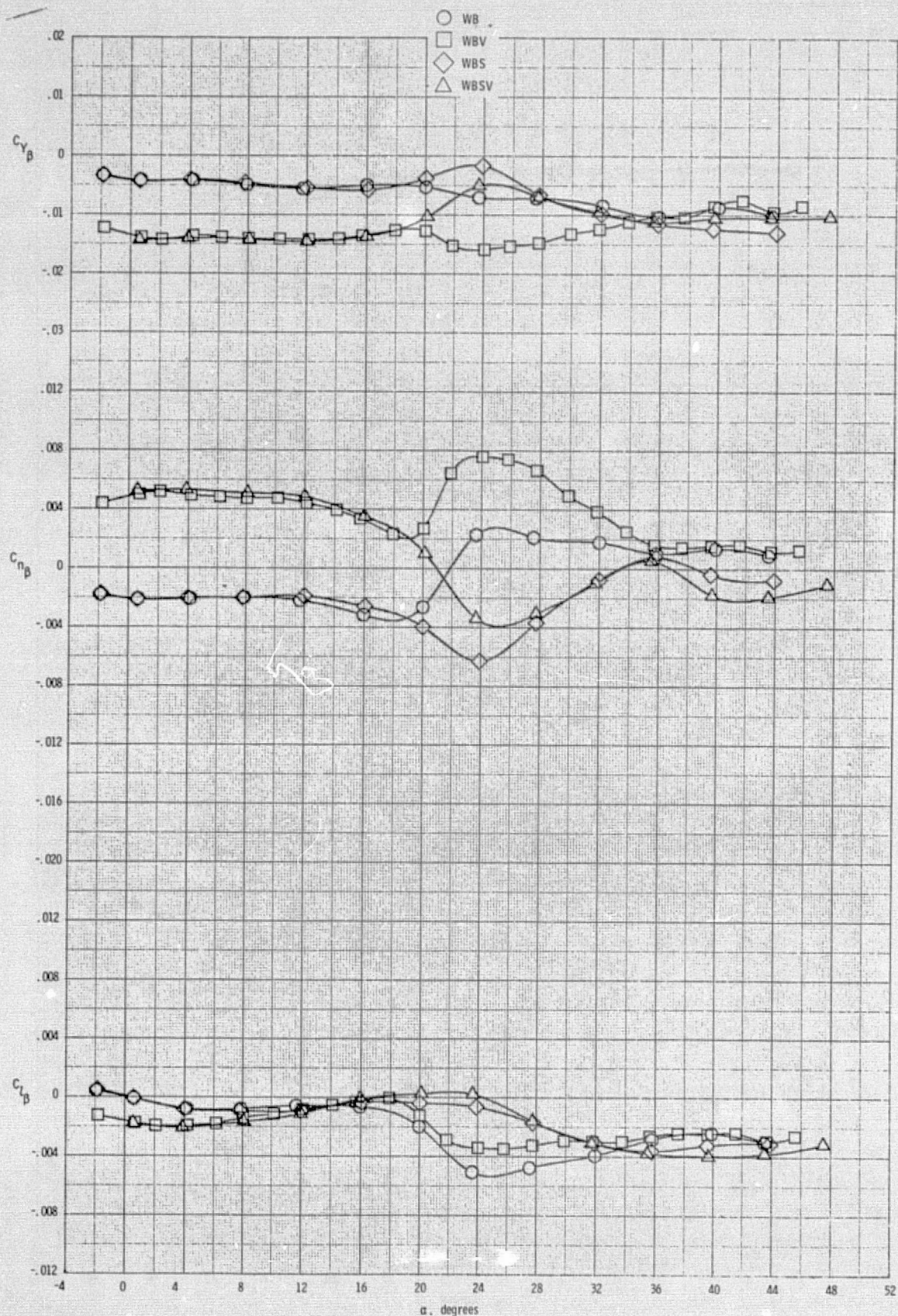




(f) Nose balance large stroke data.  
Figure 6. Concluded.

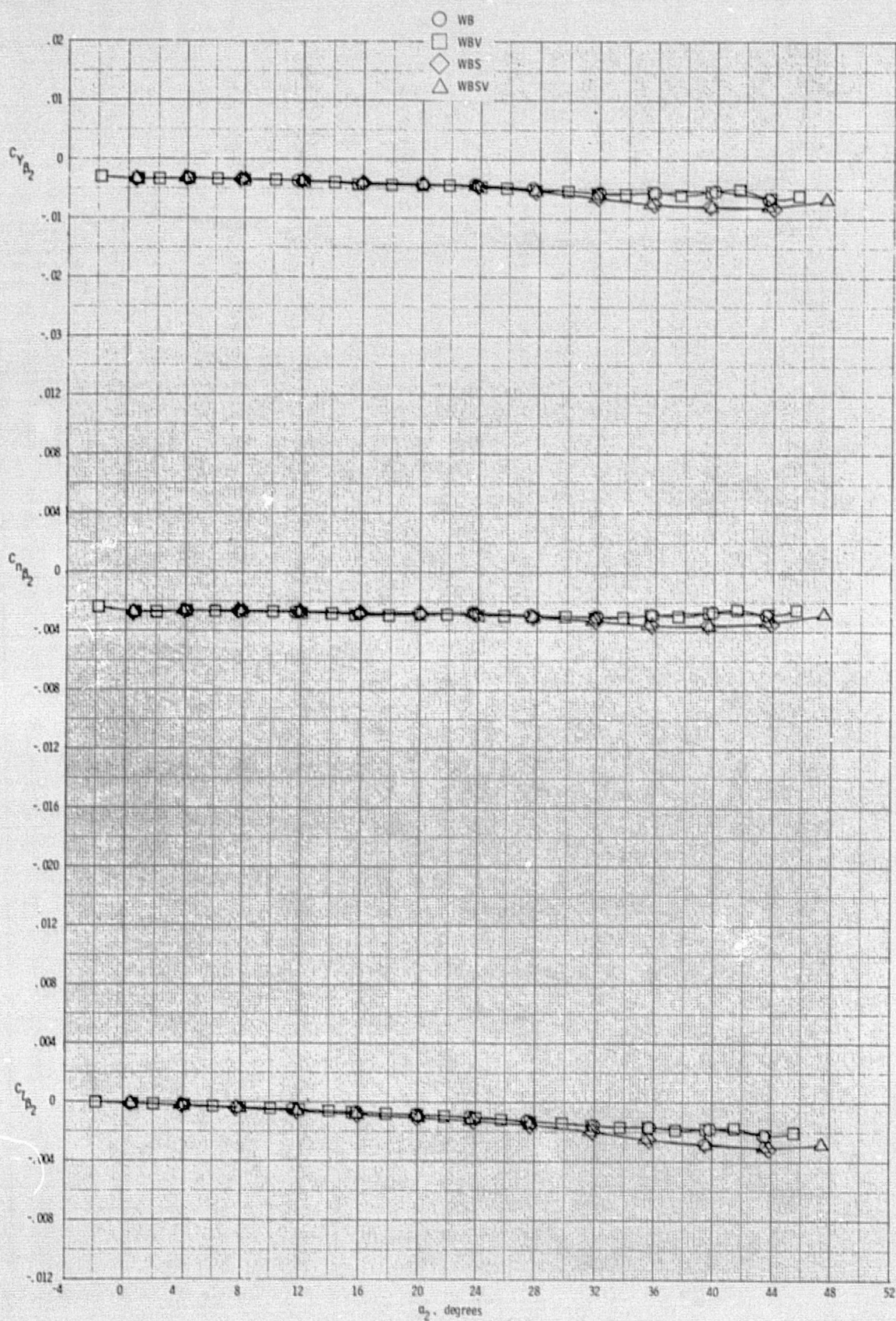
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(a) Main balance small stroke data.

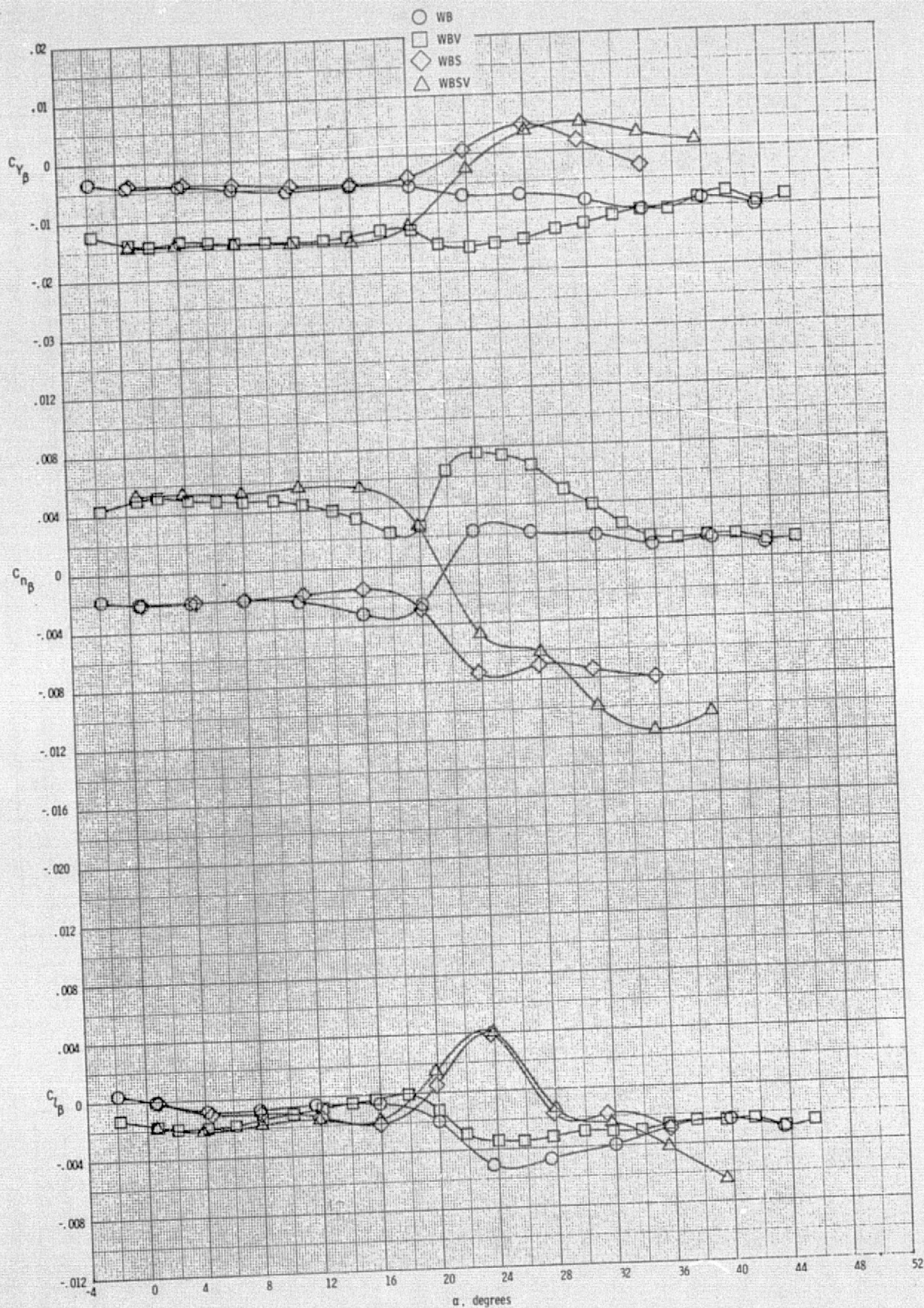
Figure 7. Lateral-direction derivatives of the configurations with the  $44^\circ$  sweep wing.  $M = 0.3$ .



(b) Nose balance small stroke data.  
Figure 7. Continued.

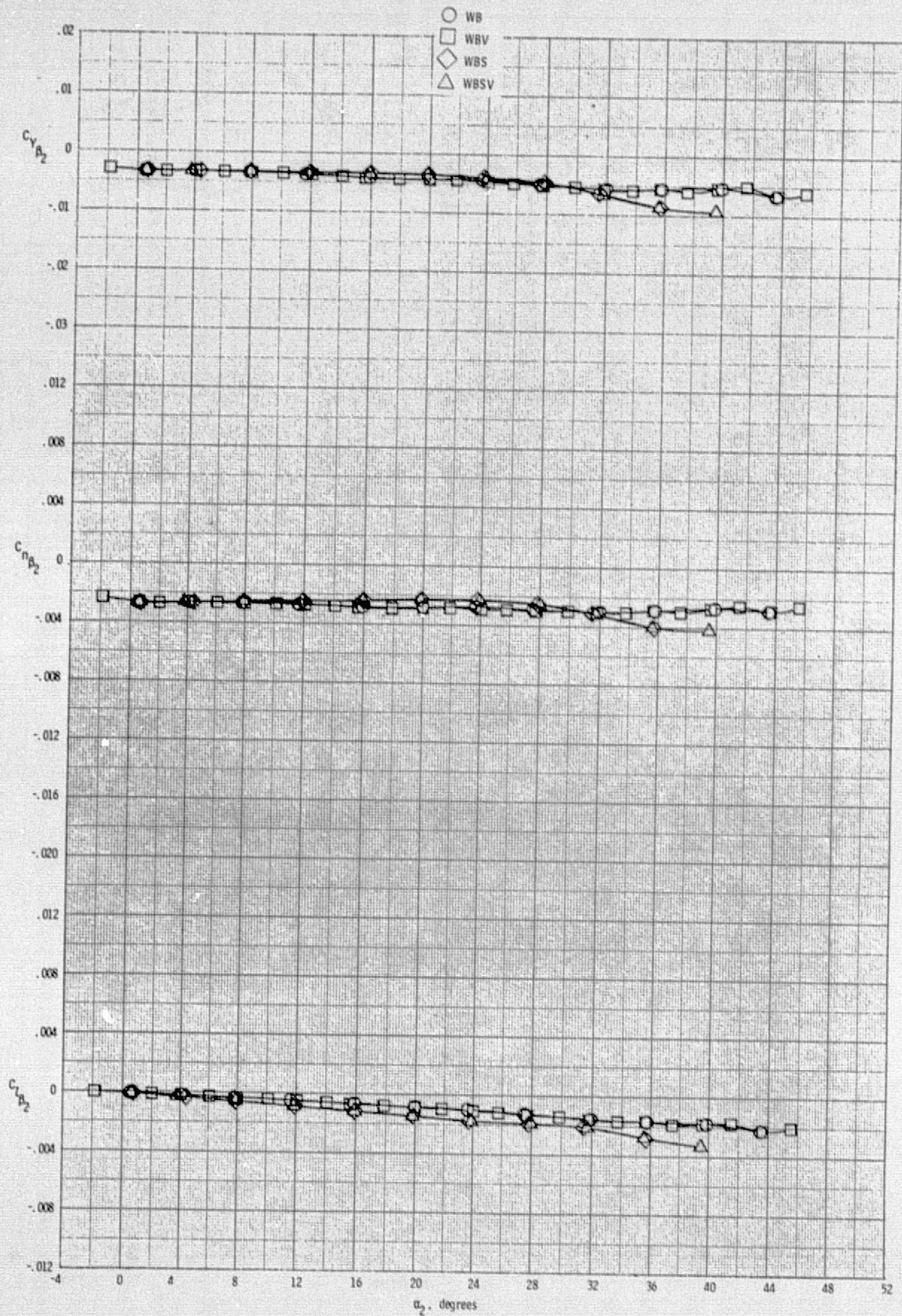
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(c) Main balance medium stroke data.  
 Figure 7. Continued.

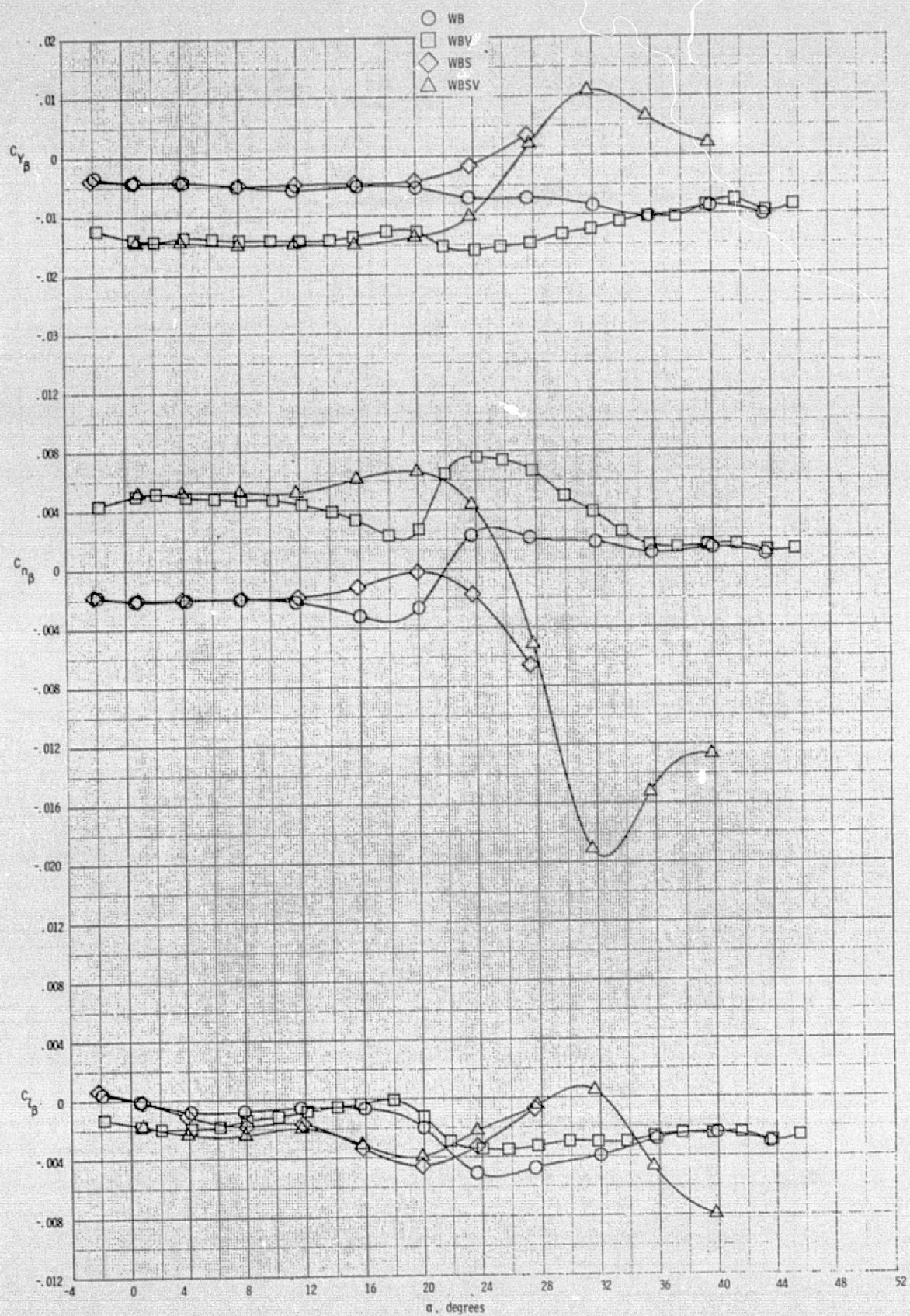




(d) Nose balance medium stroke data.  
Figure 7. Continued.

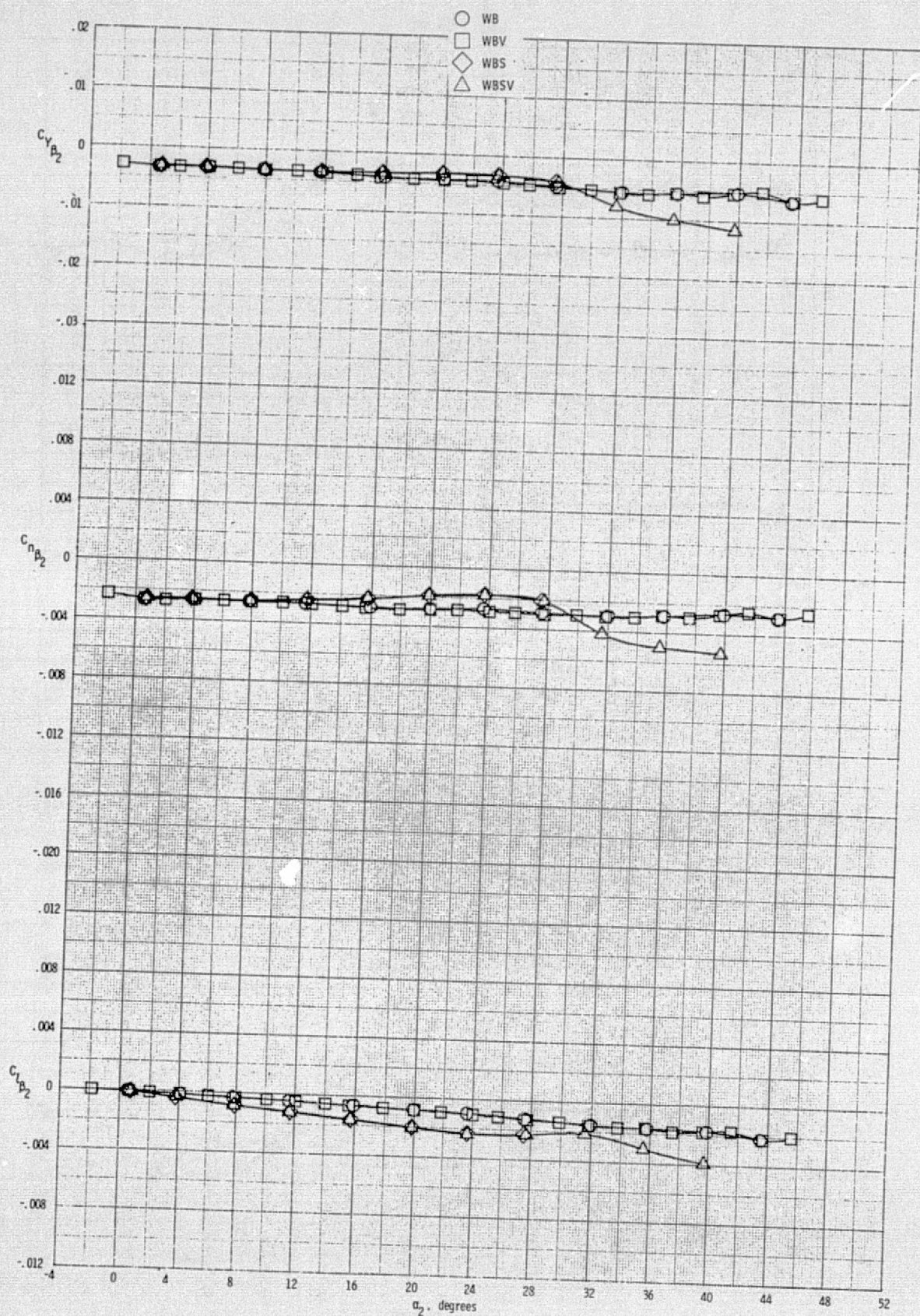
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(e) Main balance large stroke data.  
Figure 7. Continued.

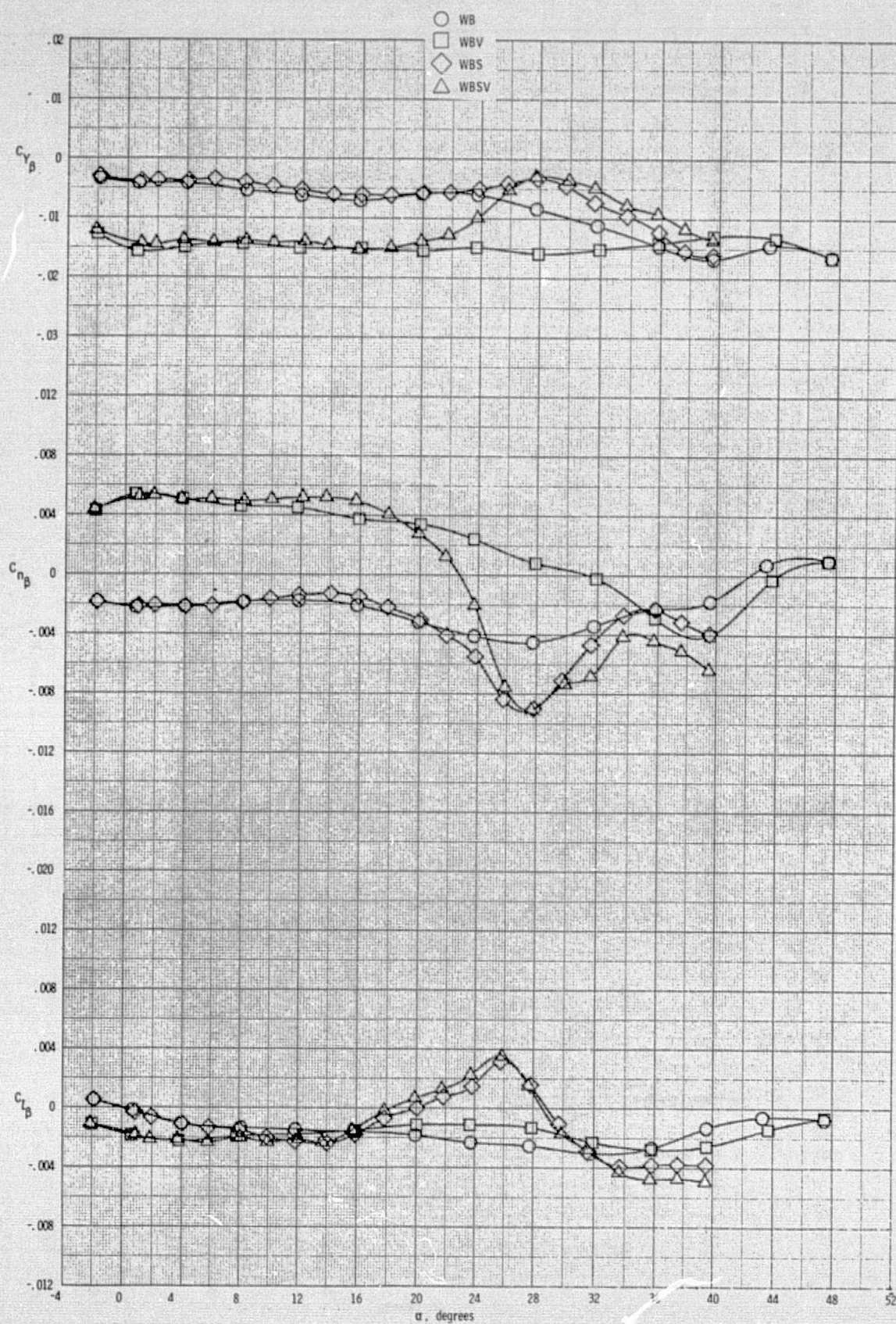




(f) Nose balance small stroke data.  
Figure 7. Concluded.

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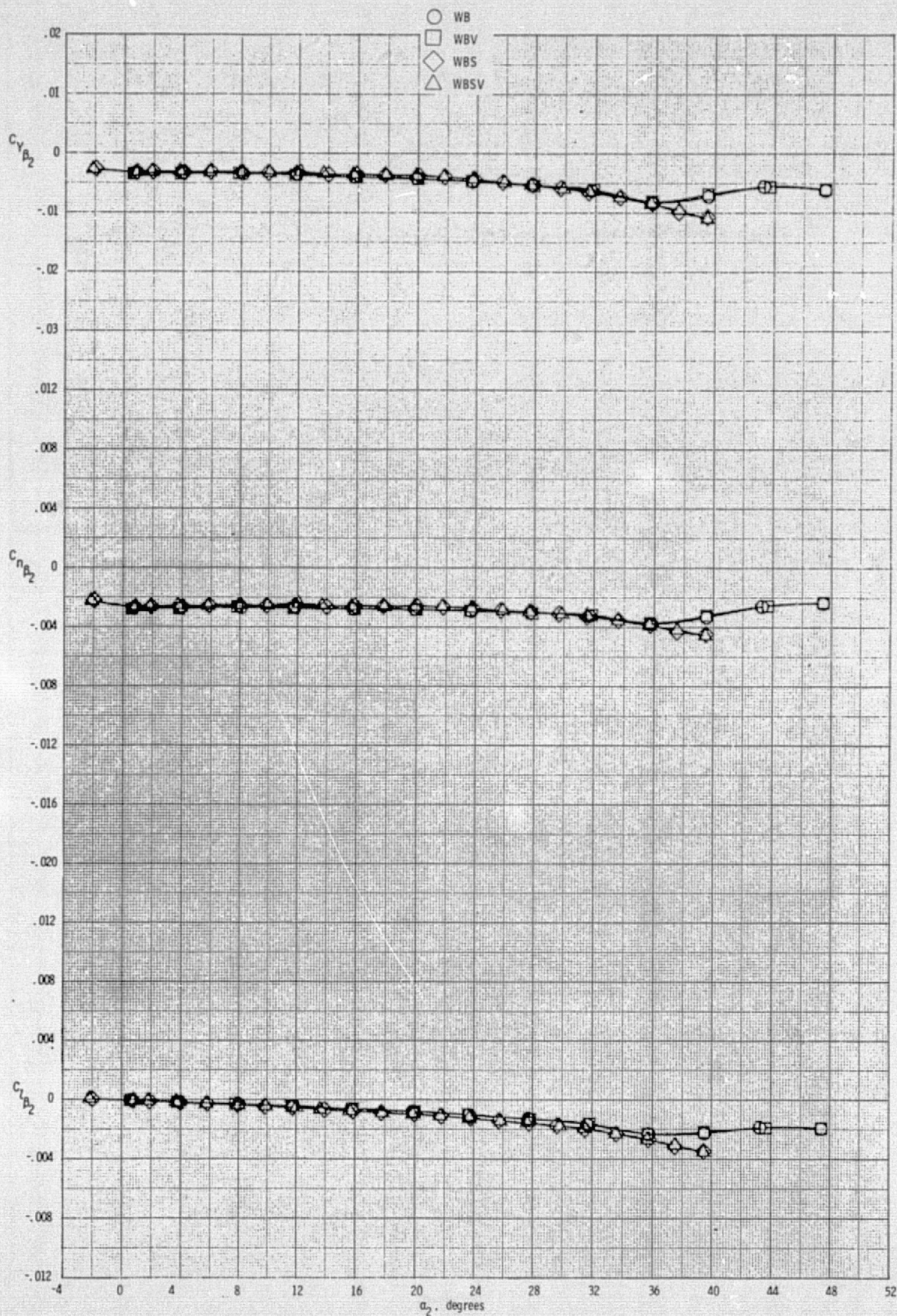




(a) Main balance small stroke data.

Figure 8. Lateral-directional derivatives of the configurations with the  $60^\circ$  sweep wing.  $M = 0.3$ .

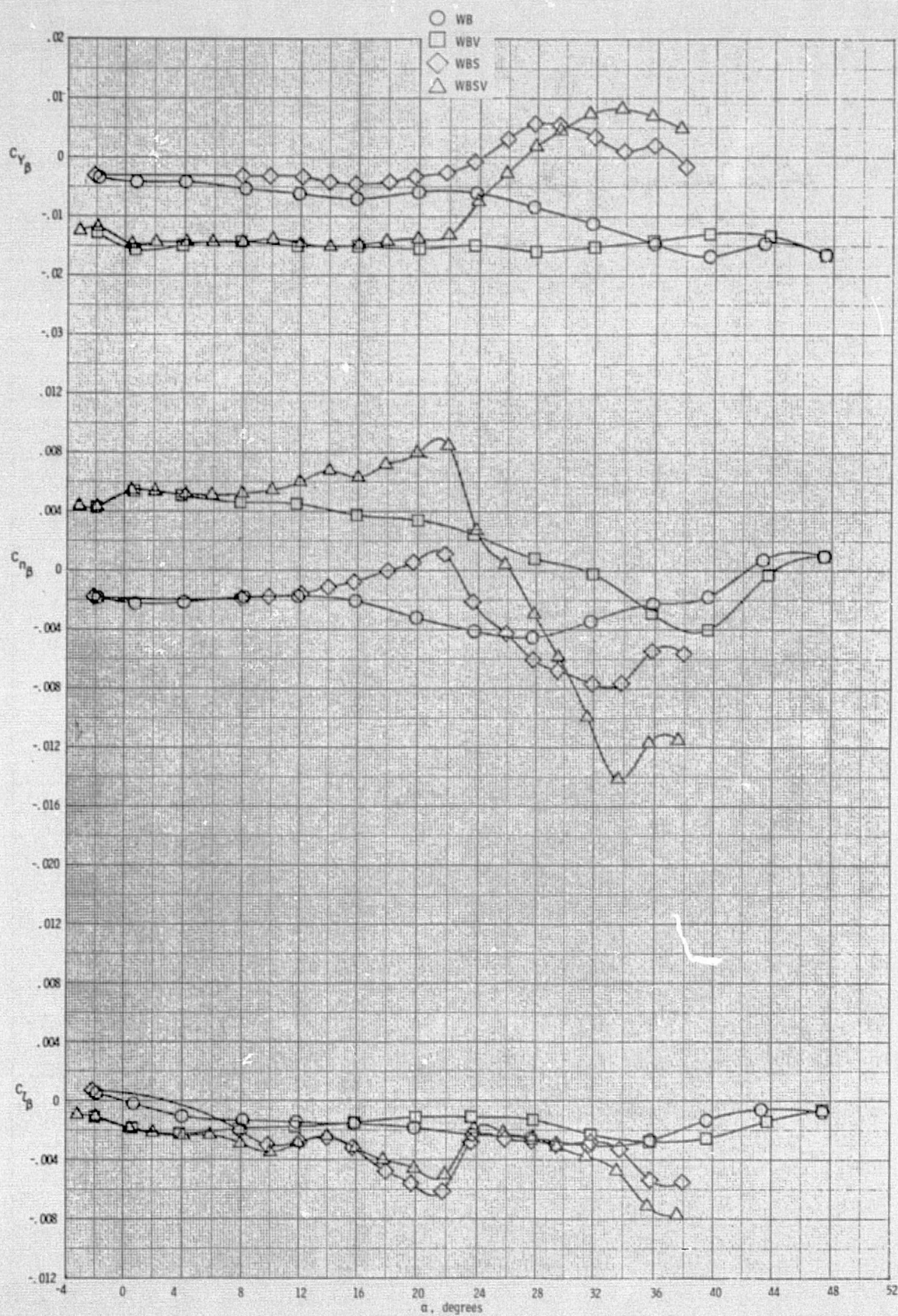




(b) Nose balance small stroke data.  
Figure 8, Continued.

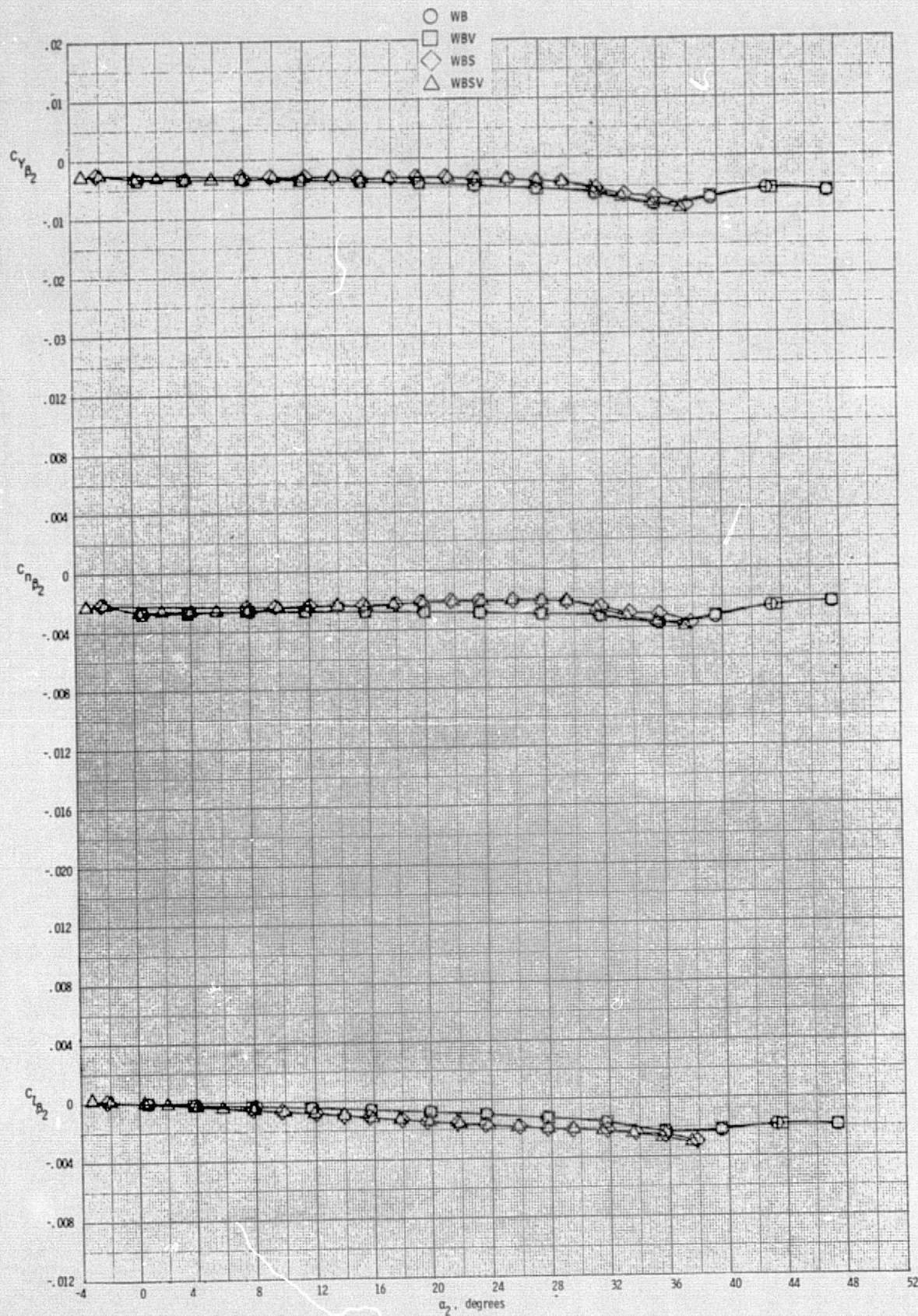
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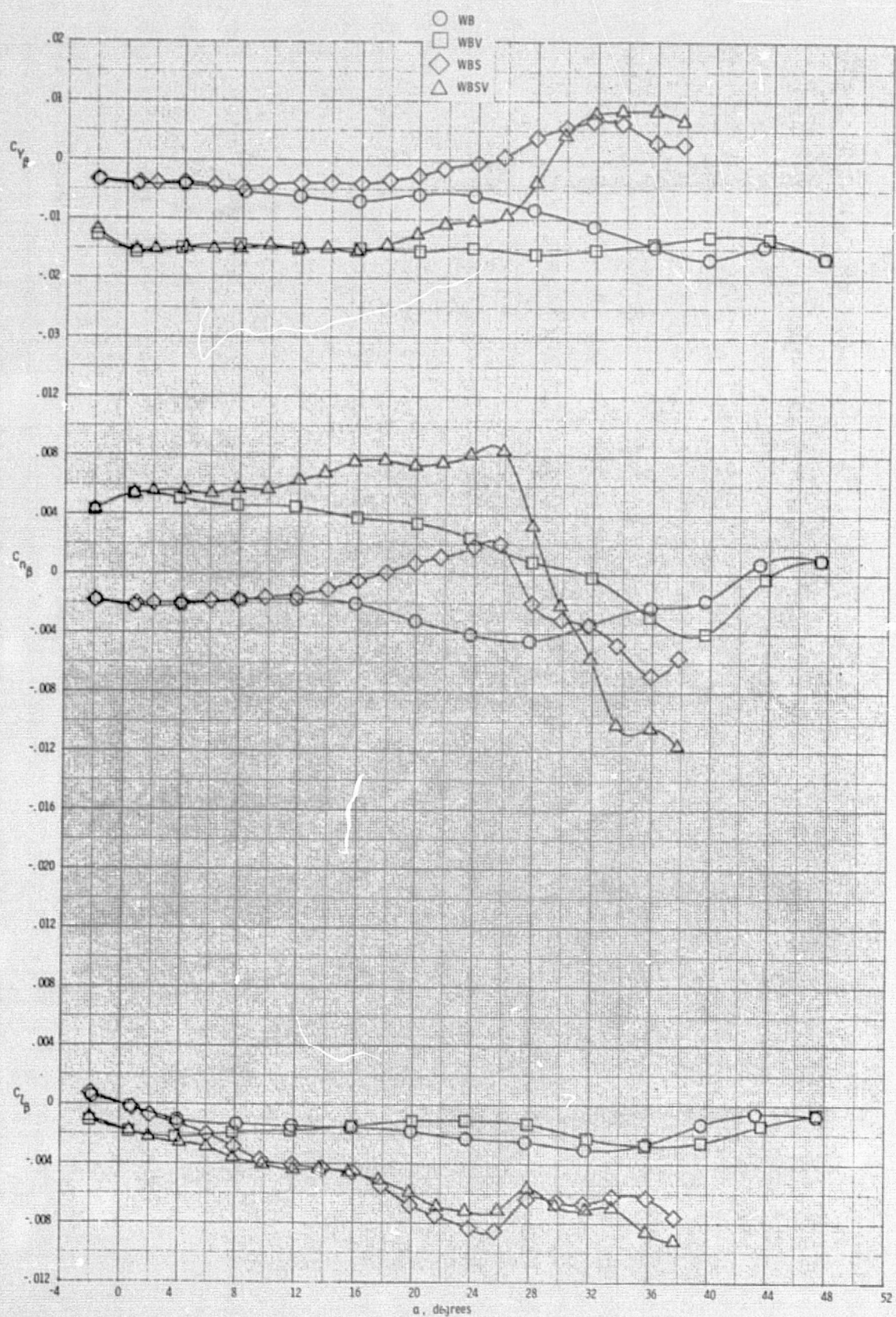
(c) Main balance medium stroke data.  
 Figure 8, Continued.





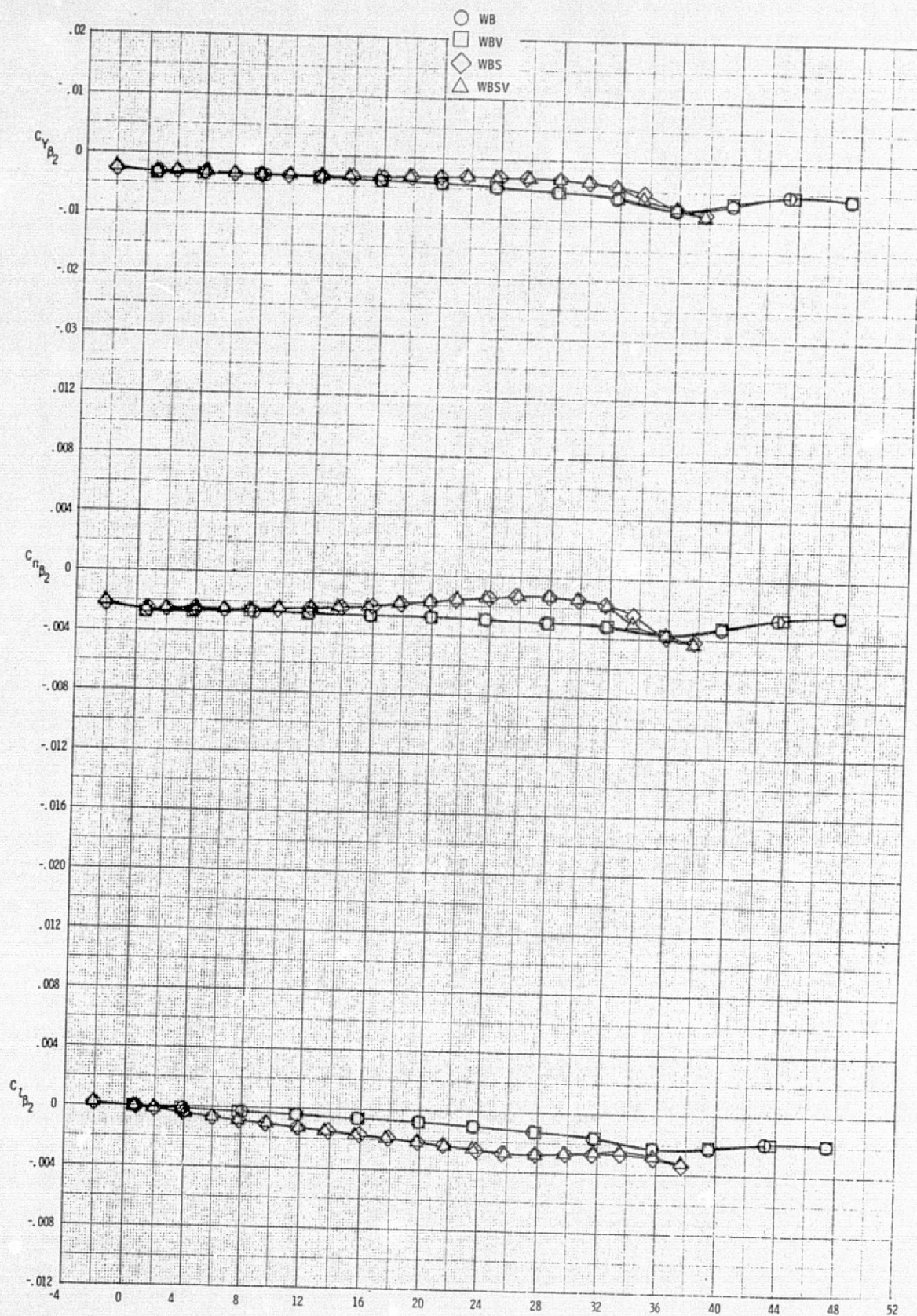
(d) Nose balance medium stroke data.  
Figure 8. Continued.

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(e) Main balance large stroke data.  
Figure 8, Continued.





(f) Nose balance large stroke data  
Figure 8, Concluded.

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